AKAI

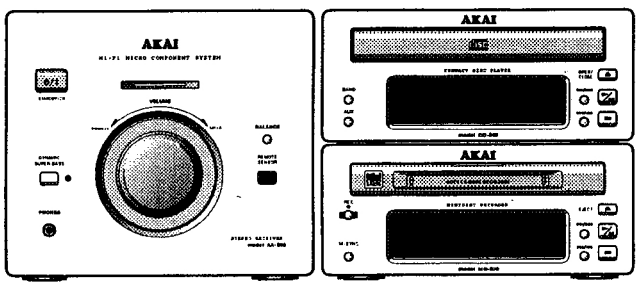
Hi-Fi MICRO COMPONENT SYSTEM

QZ-503R/500 SERIES

AA-503R/500
DX-500
CD-500
MD-500

Operator's Manual

Thank you for purchasing this Hi-Fi micro component system. To ensure optimum performance of this unit, please read this operator's manual thoroughly.



MiniDisc COMPACT disc DIGITAL AUDIO

DOLBY B NR

• The above illustration shows the QZ-500MD model.

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English

SYSTEM COMPONENTS

System	QZ-503R/500	QZ-503R/500DX	QZ-503R/500MD
Stereo Receiver	AA-503R/500	AA-503R/500	AA-503R/500
Compact Disc Player	CD-500	CD-500	CD-500
MiniDisc Recorder	—	—	MD-500
Stereo Cassette Deck	—	DX-500	—

Akai–Creative At Heart.

Precautions

Warning

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

1-En

Power requirements

Power requirements for electrical appliances differ from area to area. Please ensure that your unit meets the requirements in your area.
If in doubt, consult a qualified electrician.
220-230V, 50Hz for Europe

2-En

About the power switch

This unit is not equipped with a primary power switch. Even when the amplifier's ⏻ / I STANDBY / ON button is off, the power supply to the unit is not completely turned off. If you wish to turn the power off completely, disconnect the power cord from the AC outlet.

4-En

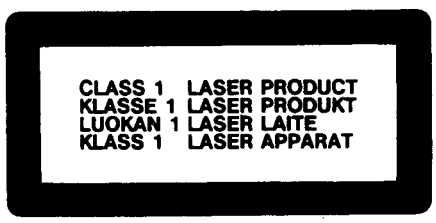
Make Your Contribution to Protect the Environment

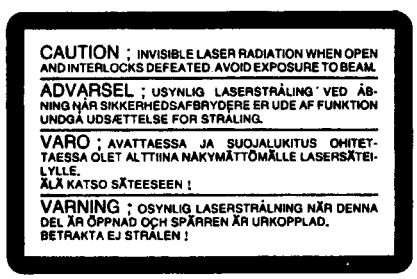
Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot.

29A-En

CLASS 1 LASER PRODUCT

This product contains a low power laser device. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer any servicing to qualified personnel.



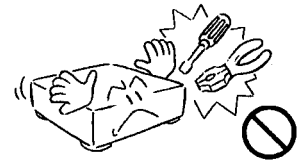

CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NAKYMÄTTÖMÄLLE LASERSÄTEILYLLE.
ÄLÄ KATSO SÄTEESEEN !
VARNING ; OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD.
BETRAKTA EJ STRÅLEN !

23-En

PRECAUTION

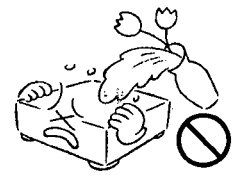
Never disassemble or modify the appliance in any way.

RISK OF FIRE OR ELECTRIC SHOCK



Avoid using the appliance where there is a lot of moisture and do not expose to water.

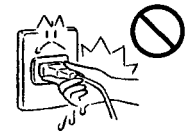
RISK OF FIRE OR ELECTRIC SHOCK



- If water is spilled on the system, disconnect the power cord at once and consult your dealer.

Never touch the power cord's plug with wet hands.

RISK OF ELECTRIC SHOCK



Never put anything, especially metal into the system.

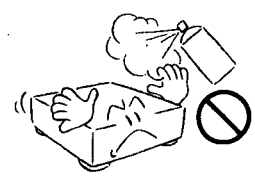
RISK OF FIRE OR ELECTRIC SHOCK

Use a household AC power source only.
Never use a DC power source.

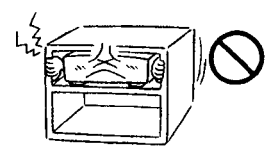
RISK OF FIRE OR ELECTRIC SHOCK

Avoid using aerosol sprays near the system.

RISK OF FIRE



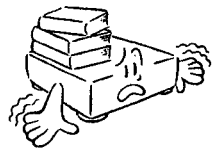
There should be at least 10cm space between the top, rear and sides of the system.



TAKE CARE!

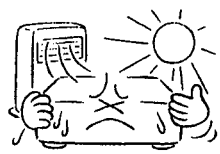
Take care that children do not put their hands in the disc slot, as this may cause injury.

Do not place anything heavy on top of the system.



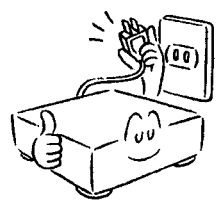
Make sure that the system is well ventilated and do not place anything on top of the ventilation holes.

To avoid damage to the internal circuits and the external surface, keep the system away from heat (stoves, direct sunlight, etc.).

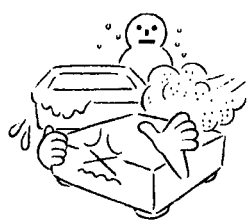


Place the system on a flat and solid surface.

If you do not plan to use the system for a long period of time, unplug the power cord.



Avoid using the system in extremely hot, cold, humid or dusty places.



- To avoid damaging the finish, never use paint thinner or other similar chemicals to clean the system.
- Avoid using the system near appliances generating magnetic fields.
- Avoid using the system near fluorescent lamps as this may shorten the operating range of the remote control unit.

When transporting

- Avoid violent shocks to the system during packing.

Avoid moisture condensation

If the temperature of the room where the stereo system is placed is suddenly increased, or if the system is transported from a cold location to a warm one, condensation (tiny droplets of water) may form on the MD recorder/CD player's laser pickup lens or the cassette deck's transport section (such as capstan and heads), preventing correct playback. If excess condensation forms on the compact disc or inside the CD player/MD recorder, operation of the CD player/MD recorder will not resume until the condensation has had ample time to dissipate. If condensation forms inside the cassette deck, the tape will stick to the heads and be ruined, or it will not be transported properly. In either case wait 30 minutes to one hour before using the stereo system.

Keep the cabinet clean

- Clean the cabinet with a soft, dry cloth.
- If the cabinet is excessively dirty, clean it with a mild detergent.
- Never use paint thinner, etc., to clean the cabinet as this may damage the finish.

In case of malfunction

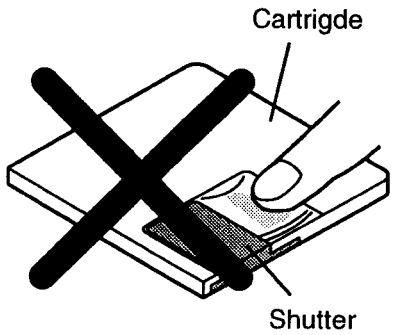
A large amount of static electricity may cause this stereo component system to malfunction or stop functioning completely. In this case, the micro-processor must be re-set to its initial operating mode as follows.

Unplug the power cord from your household AC outlet for at least 1 minutes, then reconnect it.
The micro-processor will be reset.

MiniDisc care

Handling the MD
As the MD disc is inserted in a cartridge, there is no need to worry about getting it dirty or leaving fingerprints on it when handling. However, as dirt on the cartridge or bending may cause improper operation please be sure to observe the following cautions.

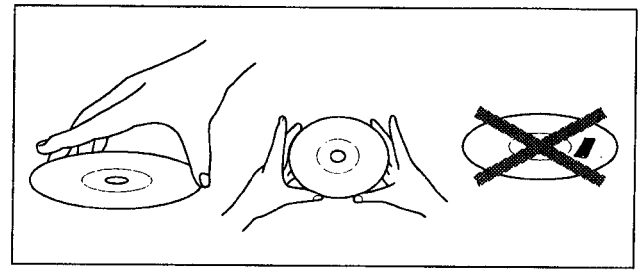
Do not touch the inside disc with your hand
Never attempt to open the shutter part by force. This may cause the shutter to not close properly, or break it.



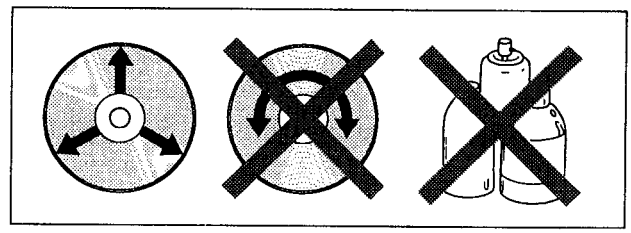
Clean regularly
Clean dust or dirt on the cartridge by wiping with a soft cloth.

Compact disc care

Disc handling
- Hold the compact disc by the outer edge only, supporting it at the center hole area with your index finger if necessary. Avoid touching the unprinted side of the disc.
- Do not attach adhesive tape etc., to the disc.



Disc cleaning
- Dust, dirt or fingerprints on the discs recorded side will hamper the laser operation and cause a decrease in sound quality. To clean dirt buildup, wipe the disc with soft (commercial sold silicone cloth etc).
  Do not use volatile chemical substances such as benzine or thinner etc., as this will damage the disc's surface.

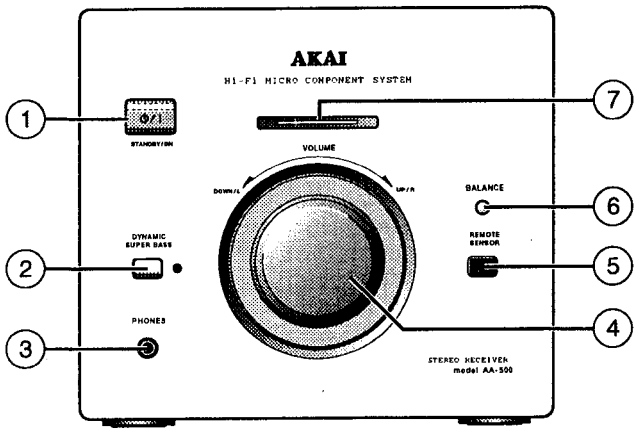


Disc and cassette tape storage

After using the disc or tape , always return it to its plastic case.
The following places are not suitable for storage.
- Places subject to direct sunlight.
- Places subject to heat from heating appliances such as stoves etc..
- Place subject to high humidity.
- Places subject to high temperature such as the inside of a car etc..

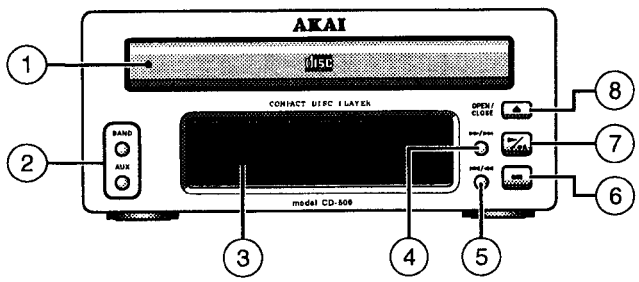
Controls and FL displays

Stereo Receiver (AA-503R / 500)



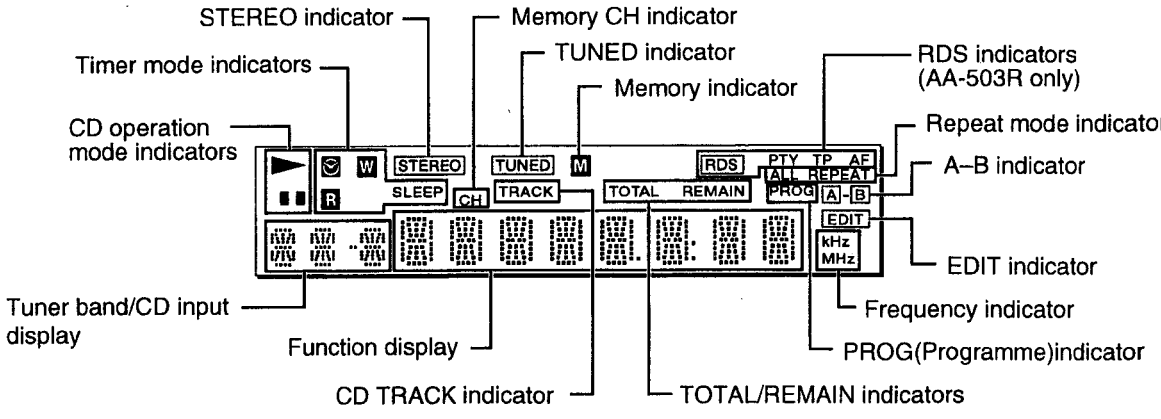
① ⏻ / I STANDBY/ON button
② DYNAMIC SUPER BASS button
③ PHONES jack
④ VOLUME/balance control
⑤ Remote sensor
⑥ BALANCE button
⑦ Power indicator

Compact Disc Player (CD-500)

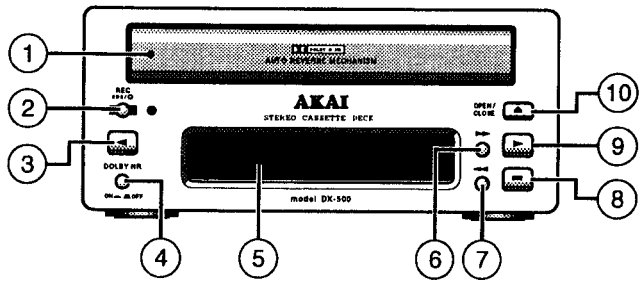


① Disc tray
② Input selector button
BAND button
AUX button
③ System FL display
④ ▶▶ / ▶▶I button
When TUNER is selected: CH up button
When CD is selected: Fast forward/Forward skip button
⑤ I◀◀ / ◀◀ button
When TUNER is selected: CH down button
When CD is selected: Fast reverse/Back skip button
⑥ STOP (■) button
⑦ Playback/pause (▶ / ❚❚) button
⑧ Disc tray open/close (⏏) button

System FL display

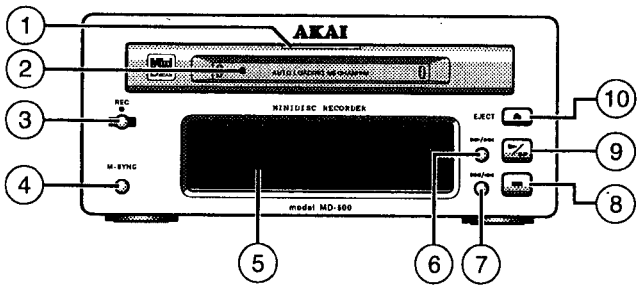


Stereo Cassette Deck (DX-500)



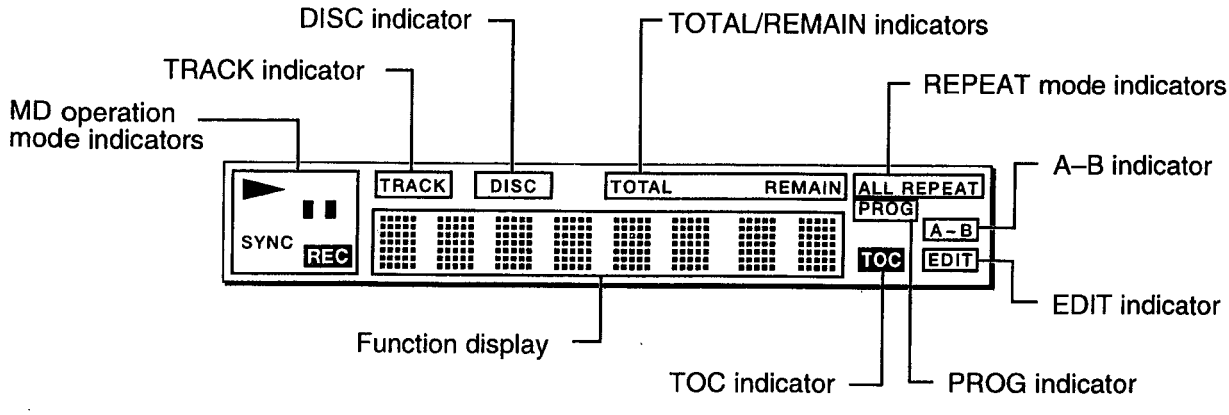
① Cassette tray
② Recording/pause (REC ●I / ○) button
③ Reverse playback (◀) button
④ DOLBY NR ON/OFF button
⑤ Tape transport indicator
⑥ Fast forward (▶▶) button
⑦ Fast rewind (◀◀) button
⑧ Stop (■) button
⑨ Forward playback (▶) button
⑩ Cassette tray open/close (⏏) button

MiniDisc Recorder (MD-500)

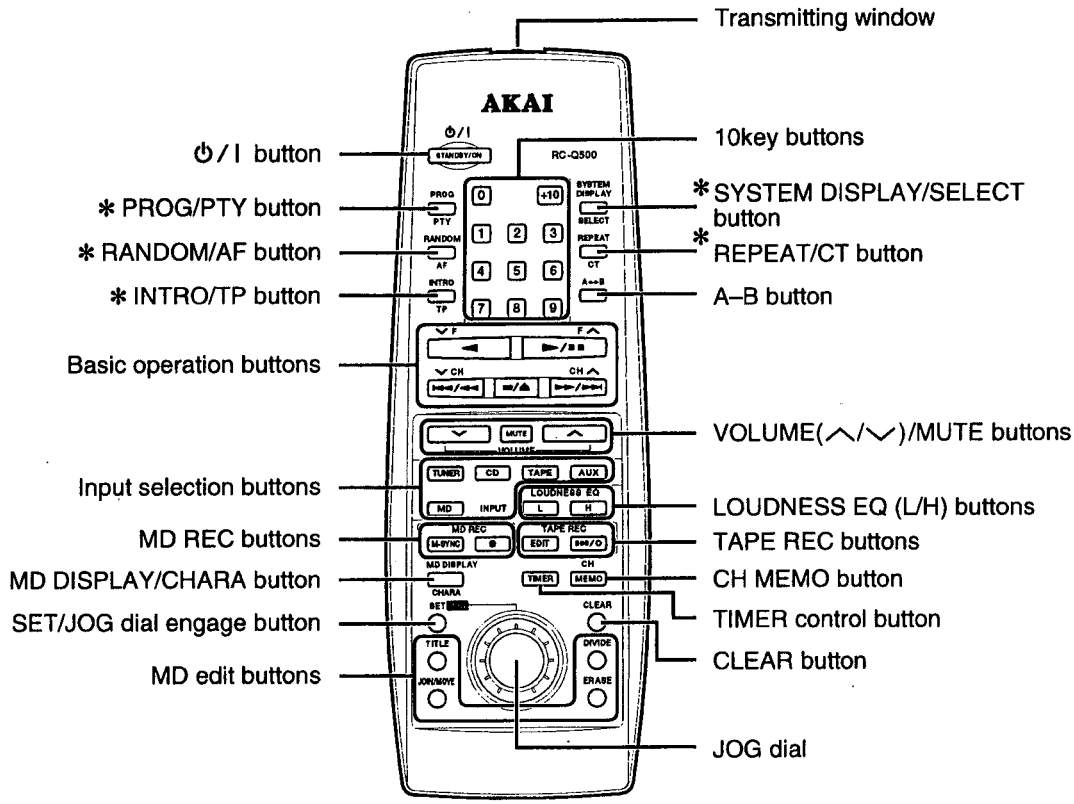


① Disc indicator
② Disc slot
③ Recording (REC ●) button
④ M-SYNC recording button
⑤ FL display
⑥ Fast forward/Forward skip (▶▶ / ▶▶I) button
⑦ Fast reverse/Back skip (I◀◀ / ◀◀) button
⑧ Stop (■) button
⑨ Playback/Pause (▶ / ❚❚) button
⑩ MD eject (⏏) button

FL Display

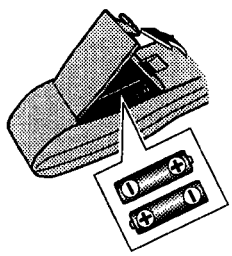


Remote control unit (RC-Q500)



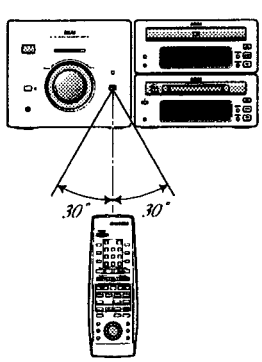
* RDS function is only available on the AA-503R (PTY / AF / TP / CT / SELECT)

Inserting the batteries



1 While pressing the hook with your finger, pull the lid up.
2 Insert the batteries making sure that the polarities (+/–) are aligned correctly.

Remote control usage range



- When operating the remote control, make sure that it is pointed at the remote sensor window on the main unit.
- The remote control will operate within a range of 30° to the left or right of the system and up to 7m from it.
- When batteries become old, the transmitting range of the remote control will lessen. If this happens, please replace the batteries with new batteries.

Remote control cautions

- Do not drop the remote control or touch the buttons with wet hands. This could cause damage.
- Avoid using the remote control in places subject to direct sunlight or place subject to high temperatures or high humidity.
- Do not disassemble the remote control.

Battery cautions

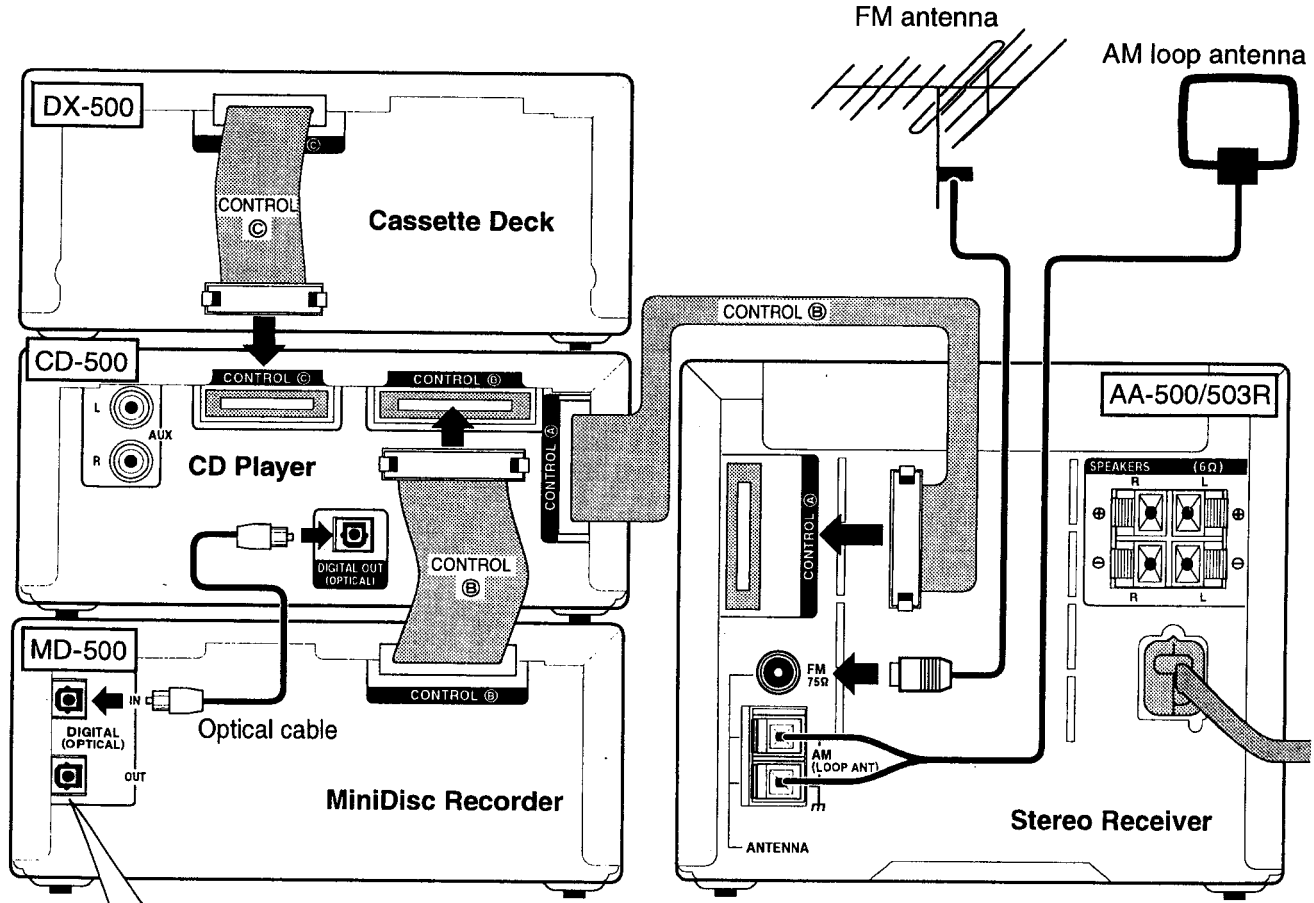
Wrong usage of the batteries may cause leakage of battery liquid or rupture. Please take the following precautions.

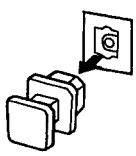
- When replacing the batteries, replace both batteries at the same time. Do not mix old batteries with new ones or use different battery types together.
- When not using the remote control for a long period of time, remove the batteries. If not removed, leakage may occur.
- If leakage occurs, wipe the battery compartment thoroughly.
- Do not try to recharge batteries.
- Do not throw batteries into a fire.

Connections

Before connecting:

- Connect everything securely. Loose connections can lead to malfunction or damage caused by a short circuit.
- Connect the power cord after all connections have been made

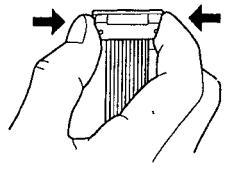




The digital (optical) input/output terminal is protected with a dust prevention cap.
Remove this cap when making connections.
When not using this terminal, reinsert the cap

- Connection will depend on which system you have (some of the components may be optional). The illustration above shows connection of all the system components.

Removing the flat cable

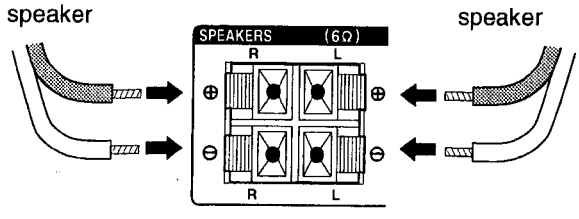


To remove the flat cable, pull it straight out while pressing the tabs on its sides.

Speaker cord connection

To right front speaker

To left front speaker



Note:

- Connect the red wires to the + terminals.

Antenna placement

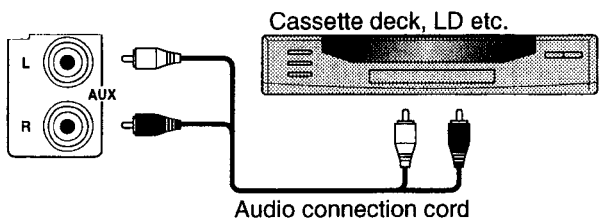
Do not place the AM loop antenna on top of the tuner or any other metal encased object as this could result in noise interference. It should also not be placed near a CD player, computer or TV set.
The FM antenna should be attached to a wall etc., after being unwound and extended to its full length.

FM antennas

FM broadcasts provide excellent sound quality, but in order to take advantage of this, the radio waves must be received properly. We recommend that you select an antenna appropriate for your area.

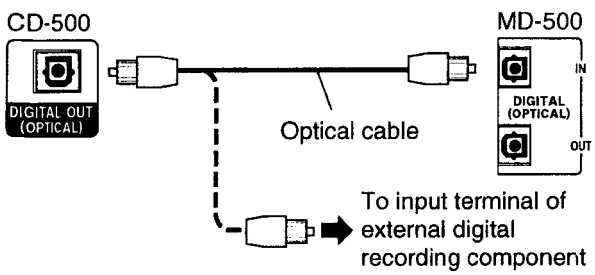
AUX input terminals

These are input terminals for analog connection of external components. Playback of an external cassette deck or LD player etc., is possible by connecting these terminals to the pin jack output terminals of the connecting component.



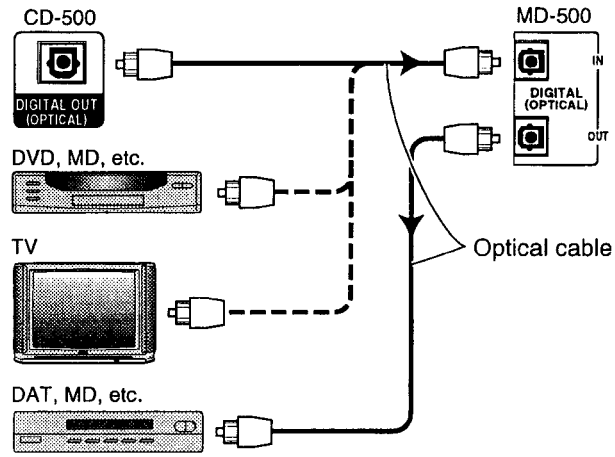
Digital output (optical) terminal (CD-500)

This is the optical output terminal for the CD's digital signal. Normally, connect this terminal to this system's MD recorder DIGITAL IN terminal using an optical fibre cable. If not connected, digital recording of CDs to the MD is not possible.
Digital recording to other components is also possible by connecting this terminal to the digital (optical) input terminal of digital recording components the such as an MD, DAT etc..



Digital (optical) input/output terminal (MD500)

Normally, connect the input terminal to the digital (optical) output terminal of this system's CD player using an optical fibre cable. This connection allows recording of the CD's digital signal to the MD.
Digital recording to other components is also possible by connecting an MD, DVD or external BS broadcast component etc., that has a digital (optical) output terminal.
Although the sampling frequency of a DAT or BS broadcast differs, the frequency will be converted automatically.
The MD's digital (optical) signal is output from the output terminal. The digital (optical) input terminal of an external component can be connected here for digital signal connection.



Before operating

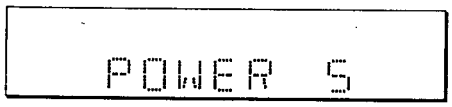
Power on/off

Although the system's power will be turned on when the ⏻ / I button is pressed, the system will take 5 seconds to stabilize itself. During this time, the power indicator will flash and operation buttons will not be operable.
Pressing the ⏻ / I button again will turn the power off. Even when the power is off, power is still being supplied to some of the system's circuits, such as the time circuit. For safety, unplug the power cord from your household AC power outlet when you will not be using this unit for a long period of time.

Power save mode

When the power save mode is engaged, in order to conserve energy the system will be turned off when CD, MD or TAPE input is selected and the component has not been used for more than 10 minutes.

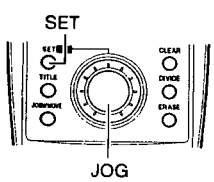
■ **To engage the power save mode:**
When the system's power is turned on, press the remote control's ⏻ / I button for more than 2 seconds. "**POWER S**" will appear on the FL display, indicating that the power save mode is engaged.



When the power save mode is engaged, "**P**" will appear on the FL display when the system's power is turned off.

■ **To cancel the power save mode:**
When turning off the power, press the ⏻ / I button on the remote control until the "**P**" indicator goes out.

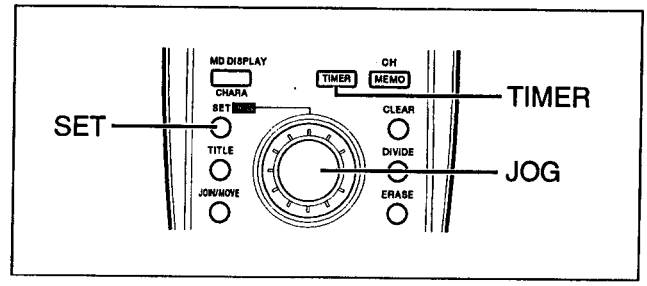
About the JOG dial:



The JOG dial includes a power save circuit to prevent wear of remote control batteries. When the JOG dial is not used for more than 3 minutes, the power save mode is engaged, disabling the JOG dial. To use the JOG dial in this case, first press the SET/JOG button before using.

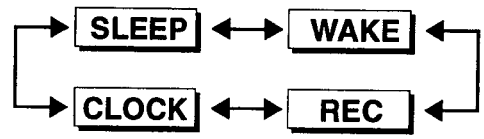
Setting the clock

This system has a built-in clock circuit. Before the timer-controlled functions can be used, the clock must be set to the current time.
The clock will function even while the system's power is off.
The current time will be displayed on the FL display.

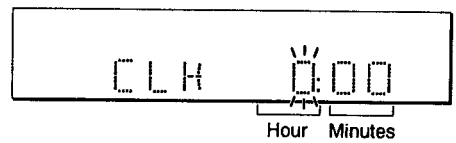


1 **Press the TIMER button.**
"**SLEEP**" will appear on the FL display.

2 **Turn the JOG dial to select "CLOCK".**
The FL display will change in the following order when the JOG dial is turned.



3 **Press the SET button.**
The time will be displayed.



Input the current time
- Turn the JOG dial to input the flashing hour and press the SET button.
- Turn the JOG dial to input the flashing minutes.

4 **Press the SET button to set the current time.**
The input source display will appear after 3 seconds.

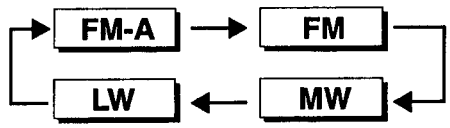
Note:
- The timer employs a 24 hour clock. 0:00 indicates midnight and 12:00 indicates noon.
- If a power failure occurs, or if the power cord is unplugged, the power backup mode will function providing power backup for approx. 1 minute. Data will be retained during this time. If the power is off for more than 1 minute, please reset the clock data.

Radio broadcast reception

Tuning of radio stations can be done manually or automatically. Up to 30 radio stations can be memorized at preset channels and recalled with the 10 key buttons or JOG dial.

Manual/auto tuning

1 **Press the TUNER button to select a band.**
The band will change each time the TUNER button is pressed.



2 **Press the F ∧ or ∨ button to select the reception frequency.**
When a radio station is tuned in, the "**TUNED**" indicator will light.

- **Manual tuning**
  Press the F ∧ or ∨ button repeatedly to tune in a station.
  F ∧ button:
  Tuning will proceed in the direction of high frequencies.
  F ∨ button:
  Tuning will proceed in the direction of low frequencies.

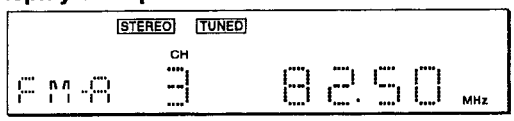
- **Auto tuning**
  Hold the TUNING ∧ or ∨ button pressed for a few seconds to engage auto tuning. Frequencies will be automatically scanned.
  When a radio station is received, scanning will stop.
  To stop scanning at any time, press the ■ button.

3 **Press the CH MEMO button.**
The "M" indicator and CH number will flash.

4 **Press the CH ∧ or ∨ button to select the desired CH number.**

5 **Press the SET button to memorize the station.**

Display example



Note:
- When selecting the CH number in step 4, do not use the 10 key buttons. If used, the previously memorized radio station will be recalled, and the memory mode will be cancelled.

Auto memorization

Use this mode to automatically tune in stations and memorize them at channels.

1 **Press the TUNER button to select a band.**

2 **Press the CH MEMO button.**
"M" and the CH number will flash.

3 **Press the CH ∧ / ∨ button to select the CH number where you wish to start auto memorization.**

4 **Press the F ∧ button to start auto memorization.**
Each time a radio station is tuned in it will be memorized and assigned a channel. Unwanted stations can be skipped by pressing the F ∧ button while the "M" and CH number indicators are flashing.
Auto station memorization will stop when 30 stations have been memorized, or when the complete band has been searched through.

5 **To stop auto station memorization, press the ■ button.**

Note:
- Auto memorization will not memorize stations with weak signals.

About FM auto tuning

When the tuning band is set to FM auto (FM-A), the stereo mode's automatic selection function will operate.
When the tuned station is a stereo broadcast, the "**STEREO**" indicator will light.

If reception is weak:

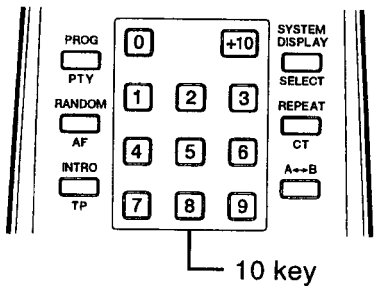
If reception of the FM station is weak, causing the STEREO indicator to flicker, set the band to "**FM**".
Although the stereo broadcast will be switched to mono, noise and distortion will be reduced resulting in clearer, easier to hear reception.

Recalling stations

Memorized stations can be recalled easily with an easy one-touch operation.
The remote control's 10 key buttons or the JOG dial can be used for direct recall of memorized CH numbers.

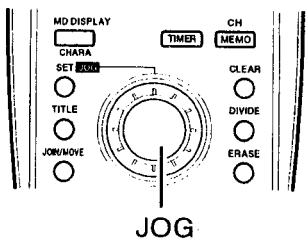
■ **Using the 10 key buttons:**

- **To select preset CH number 4:**
  Press the 4 button.
- **To select preset CH number 10:**
  Press the +10 button, then press the 0 button.
- **To select preset CH number 25:**
  Press the +10 button twice, then press the 5 button.



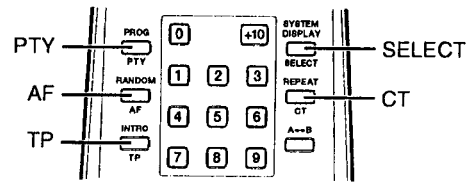
■ **Using the JOG dial:**

- The CH number will change continuously in order when the JOG dial is turned. Turn until the desired preset CH is selected.



RDS reception (AA-503R only)

RDS stands for Radio Data System and is a signal that transmits data with FM broadcasts. 5 RDS functions that make use of this data are available on the tuner of this system: Programme Service name (PS), Clock Time adjust (CT), Alternative Frequencies search (AF), Programme Type search (PTY) and Traffic Programme search (TP). Please note that if RDS data is not being broadcast or if the RDS indicator is not lit on the system FL display (or flickers/disappears), these functions will not operate properly.
RDS functions are operated with the following remote control buttons.



PS name

The PS name function displays the RDS station name. This name appears on the system FL display when an RDS station is tuned in.

PTY search

Language selection

PTY displays can be displayed in 4 languages: English, German, French and Dutch. Before continuing with PTY search operation, please select the language you want.
Press the PTY button for 3 seconds to enter the language select mode and then continue pressing it until the language you want is displayed. The system FL display will change as follows.

DEUTSCH → FRANCAIS
ENGLISH ← HOLLAND

You can search for the type of programme that you want to listen to using the PTY search function. There are various types of programmes that can be searched for and these are displayed on the system FL display as follows.

FL display	Type of programme
NONE	No programme type
NEWS	News
AFFAIRS	Current affairs
INFO	Information
SPORT	Sports
EDUCATE	Education
DRAMA	Drama
CULTURE	Cultural
SCIENCE	Science
VARIED	Variety
POP M	Pop music
ROCK M	Rock music
M.O.R. M	M.O.R. music
LIGHT M	Light classical
CLASSICS	Serious classical
OTHER M	Other music
ALARM	Alarm

1 **Press the TUNER button until the FM band is selected.**

2 **Press the PTY button.**
The PTY indicator will flash on the system FL display. If the PTY signal is being sent by the station, the programme type ("NEWS" etc.) will be displayed. If it is not being sent "**NONE**" will appear.

3 **Press the SELECT button repeatedly to select the type of programme that you want to search for (ROCK for example).**

4 **Press the PTY button again.**
"**PTY**" will appear on the function display and PTY search will begin. Every time a station is received the TUNED indicator will light and the frequency will be displayed. PTY search will continue until the type of programme being searched for is tuned in.
If you selected NONE in step 3, pressing the PTY button will cancel PTY search. The PTY mode can be cancelled by pressing the CLEAR button.

Note:
- If the programme type being searched for is not found, PTY search will continue once through all the frequencies and stop at the frequency where it was started.

TP search

The TP search function searches for stations that are broadcasting traffic information.

1 **Press the TUNER button until the FM band is selected.**

2 **Press the TP button.**
"**TP**" will appear on the function display and the TP indicator will flash. TP search will begin and TUNED will light every time a station is received. TP search will continue until a station broadcasting traffic information is found.

Note:
- TP search will continue once through all the frequencies of the band, searching for a TA (Traffic Announcement Identification) signal. If no TA signal is found, TP search will continue once again through all frequencies searching for a TP (Traffic Programme Identification) signal. If no signals are found TP search will stop at the frequency where it started.

AF search

The AF search function searches for alternative frequencies for the station that you are listening to in order to provide the best reception. Not all stations have alternative frequencies. The AF indicator lights on the system FL display when a station that has alternative frequencies is tuned in. If this indicator is not lit the following procedure will have no effect.

■ **Press the AF button.**
"**AF**" will appear on the function display, the AF indicator will flash and the alternative frequency will be selected.

CT adjust function

The CT adjust function adjusts the system's clock to the time being sent by the station you are listening to.

1 **Press the TUNER button until the FM band is selected.**

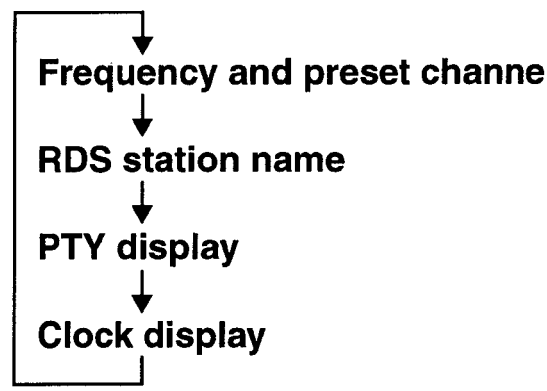
2 **Press the CT button.**
"**CLOCK**" will appear on the system FL display and the clock will be adjusted.
Even if the RDS indicator is lit, if no CT data is being sent, "**NO CT**" will appear.

Station information display

Whenever TUNER input is selected the following station information will be automatically displayed on the system FL display.

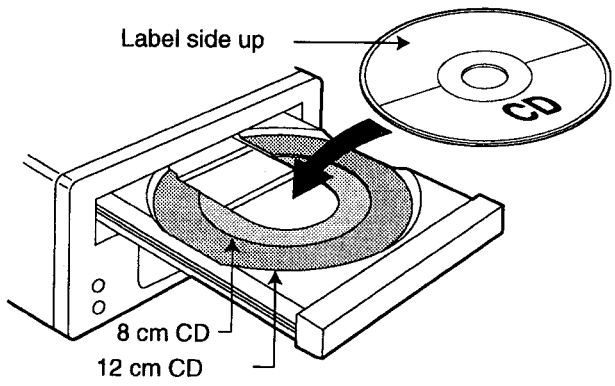
Frequency or preset channel
↓
RDS station name

The remote control's DISPLAY button can also be pressed repeatedly to scroll through the station information.
Station information will change as follows.



Note:
- The RDS station name and PTY display will only appear if they are being sent by the station.

CD playback

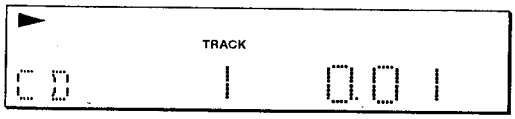


- Place the CD on the disc tray, label side up.
- Make sure that the CD is placed properly within the grooves of the tray. Both 12cm and 8cm single CDs can be loaded.
- Press the ⏏ button to open/close the disc tray.
- Only music CDs that include the following mark can be played back on this unit.

COMPACT disc DIGITAL AUDIO

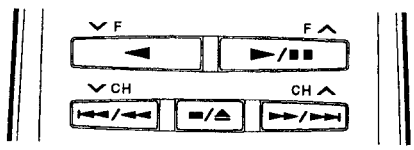
CD playback

1 Press the CD button to select to "CD" source input. Playback will start.



2 Press the ■ button to stop playback.

Note:
- Do not load any disc other than a music CD.



When "CD" source input is selected, the remote control's basic operation buttons can be used to control CD operations.

▶ / ❚❚ ..... Playback/pause button
⏮ / ◀◀ ..... Fast reverse/back skip button
▶▶ / ⏭ ..... Fast forward/forward skip button
■ / ⏏ ..... Stop/tray open/close button

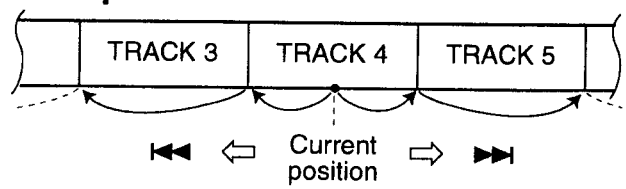
Direct search

The remote control's 10 key buttons can be used to start playback from a specific track.

■ **Using the 10 keys:**
- **To start playback from track 4:**
  Press the 4 button.
- **To start playback from track 10:**
  Press the +10 button once, then press the 0 button.
- **To start playback from track 25:**
  Press the +10 button twice, then press the 5 button.

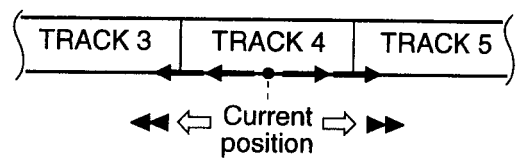
Skip search / Manual search

■ Skip search



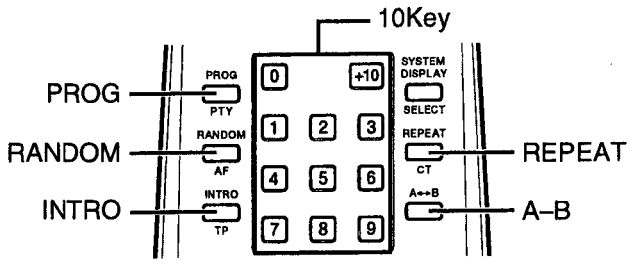
- Press the ▶▶ / ⏭ button to skip to the start of the next track.
- Press the ⏮ / ◀◀ button to skip to the start of the current playback track. Keep pressing the ⏮ / ◀◀ button to skip tracks in the reverse direction.
- Tracks can also be skipped by turning the JOG dial.

■ Manual search



- Press and hold the ▶▶ / ⏭ button for fast forward search.
- Press and hold the ⏮ / ◀◀ button for fast reverse search.

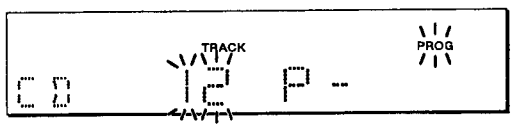
CD playback features



Programme playback (PROG)

Tracks can be programmed to playback in any order that you like. Up to 25 tracks can be programmed.

1 **Press the PROG button.**
"**WAIT**" will appear on the FL display while the disc data is being read and "**P-**" will appear when reading is finished.



2 **Press the 10 key buttons to programme tracks in the order that you want.**
Each time a track number is input, the programme number (**P-01**, **P-02** etc.) will appear.

3 **Press the ► button to start programme playback.**
During programme playback, the "**PROG**" indicator will light.

- Even when playback of the specified programme is finished, the programme mode will not be cancelled.

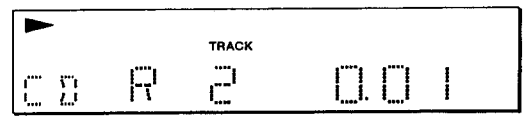
■ **Programming additional tracks:**
During programme playback or during the stop mode, press the PROG button again and repeat step 2.

■ **Cancelling programme playback:**
- Press the CLEAR button. The "**PROG**" indicator on the FL display will go out and programme playback will be cancelled.
- Pressing the 10 key buttons, INTRO button or RANDOM button etc., will engage the selected playback mode.

RANDOM playback

Tracks can also be played back in a random order.

1 **Press the RANDOM button.**
"**R**" will appear on the FL display, tracks will be randomly programmed, and playback will start.

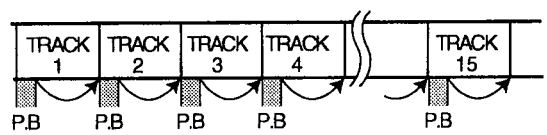


- Random playback will stop when the programme is finished.

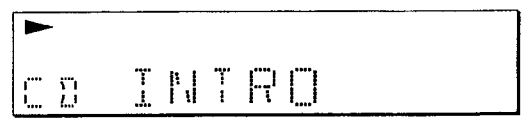
■ **Cancelling random playback:**
- Press the CLEAR button. Random playback will be cancelled and the normal playback mode will be engaged.
- Pressing the 10 key buttons, PROG button or INTRO button etc., will engage the selected playback mode.

INTRO playback

The intro of all the tracks recorded on a disc can be played back in order for approximately 12 seconds.



1 **Press the INTRO button.**
"**INTRO**" will appear on the FL display, and intro playback will start from track 1.



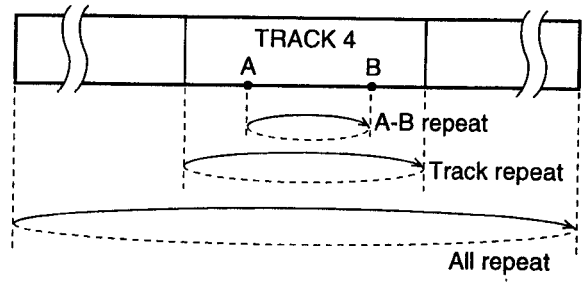
- The intro playback mode will be cancelled when all track intros have been played back.

■ **Cancelling intro playback**
- Press the CLEAR button. Intro playback will be cancelled and the normal playback mode will be engaged.
- Pressing the 10 key buttons, PROG button or RANDOM button etc., will engage the selected playback mode.

Repeat playback

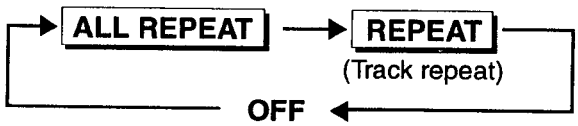
Use this function to repeat normal playback, programme playback, random playback or intro playback.

- **ALL REPEAT:**
  All the tracks on the disc will be played repeatedly.
- **Track REPEAT:**
  The current track being played back will be played repeatedly.
- **A-B repeat:**
  The specified section (A-B) will be played repeatedly played.



ALL REPEAT / Track REPEAT

1 During CD playback, press the REPEAT button to select the repeat mode.
The repeat mode will appear on the FL display.



■ **The "ALL REPEAT" mode can be selected during programme playback, random playback or intro playback for repeat playback of all tracks in that mode.**

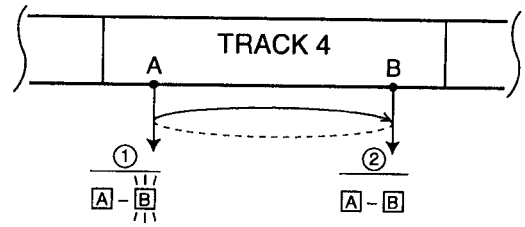
■ **Cancelling the ALL REPEAT mode:**
- Press the REPEAT button. The "**ALL REPEAT**" indicator on the FL display will go out, the all repeat mode will be cancelled, and the normal playback mode will be engaged.

■ **Cancelling the track REPEAT mode:**
- Press the REPEAT button. The "REPEAT" indicator on the FL display will go out, the repeat mode will be cancelled, and the normal playback mode will be engaged.
- Pressing the 10 key buttons, PROG button, RANDOM button or INTRO button etc., will engage the selected playback mode.

A-B repeat

1 During CD playback, press the A-B button at the point where you want repeat playback to start (A).
"**A-B**" will appear on the FL display and "**B**" will flash.

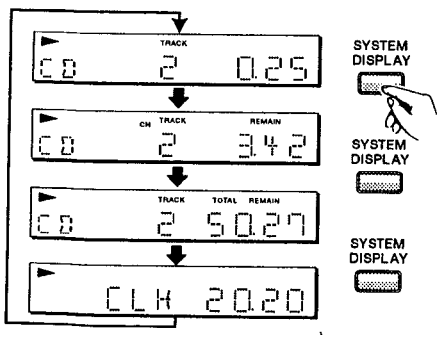
2 Press the A-B button again at the point where you want repeat playback to stop (B). A-B repeat will start.



■ **Cancelling A-B repeat:**
- Press the CLEAR button. The A-B repeat mode will be cancelled, and the normal playback mode will be engaged.
- Pressing the 10 key buttons, PROG button, RANDOM button or INTRO button etc., will engage the selected playback mode.

Note:
- A-B repeat can only be used within one track.

Selecting CD playback displays

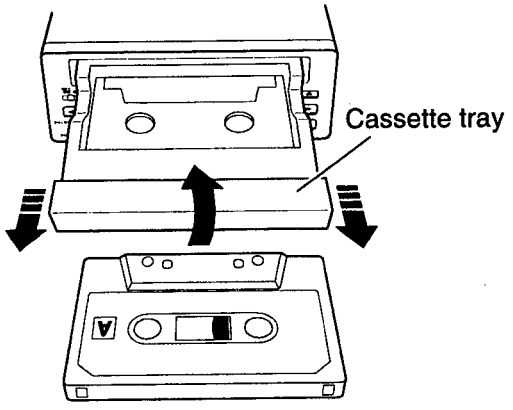


The CD's time display can be selected with the SYSTEM DISPLAY button.

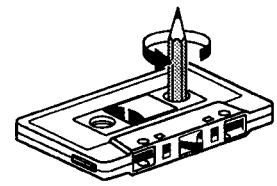
- Elapsed time display of current playback track.
- Remaining time display of current playback track.
- Total remaining time display of disc being played back.
- Clock display

■ Elapsed time/Remaining time will not be displayed during the intro playback mode.

Cassette deck playback



- Insert the tape with the exposed tape side facing inward.
- When playing the A side of the tape in the forward direction (regular direction) insert the tape with the A side facing upward.
- Press the ⏏ button to open/close the cassette tray.
- Tape slack can cause the tape to twist and tangle around the capstan and pinch roller, damaging the tape. Before using a cassette tape, take up the tape slack with a pencil.

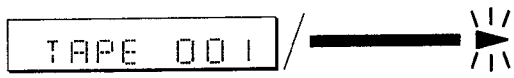


Tape playback

1 **Load a cassette tape.**
When the tape is loaded, the tape transport indicator will light indicating that a tape is loaded.

2 **When playing back a tape recorded with B type Dolby NR, press the DOLBY NR button ON (▬).**

3 **Press the remote control's TAPE button to select "TAPE" source input and start tape playback.**
The "**TAPE**" indicator and counter display will appear on the FL display.



4 **Press the ■ button to stop playback.**

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

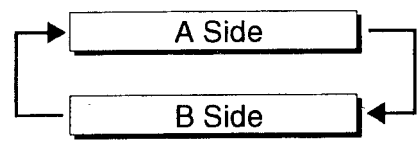
DOLBY and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

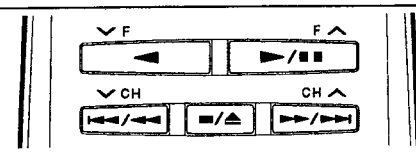
■ Tape counter

- Press the CLEAR button to reset the tape counter to "000".
- The tape counter will be automatically reset to "000" when the cassette tray is opened.

■ Continuous playback

When the end of the tape is reached the auto reverse mode will be engaged automatically, playing back the reverse side of the tape. Continuous playback will continue for 5 times and then be cancelled.





When the "TAPE" source input is selected, the remote control's basic operation buttons can be used to control tape operations.

◀ ..... Reverse playback button
▶/❚❚ ..... Forward playback button
⏮/◀◀ ..... Rewind button
▶▶/⏭ ..... Fast forward button
■/⏏ ..... Stop/Tray open/close button

Cassette deck playback features

IPLS

During tape playback the JOG dial or ▶▶ / ▶▶| or |◀◀ / ◀◀ buttons can be used to start playback from the beginning of the next track, or from the beginning of the current track.

During forward playback:
- Press the ▶▶ / ▶▶| button to start playback from the beginning of the next track.
- Press the |◀◀ / ◀◀ button to start playback from the beginning of the current track.

During reverse playback:
- Press the |◀◀ / ◀◀ button to start playback from the beginning of the next track.
- Press the ▶▶ / ▶▶| button to start playback from the beginning of the current track.

■ The same function can be performed by turning the JOG dial.

Intro scan playback

Intro scan will playback the intros of all songs recorded on a tape for about 10 seconds. Use this feature for easy confirmation of the tapes recorded contents.

1 **While pressing the ▶ button on the main unit, press the ▶▶ button to start intro scan in the forward direction.**

2 **While pressing the ◀ button on the main unit, press the ◀◀ button to start intro scan in the reverse direction.**

3 **Press the ■ button to cancel the intro scan mode.**

Note:
- The remote control can not be used for intro scan operation.

About IPLS and intro scan:
- There must be at least 4 seconds of blank space between songs for proper IPLS or intro scan operation.
  In the case of live recordings or classical music, IPLS and intro scan may not operate properly.
- IPLS may not operate properly if it is started too close to the start or end of a song.

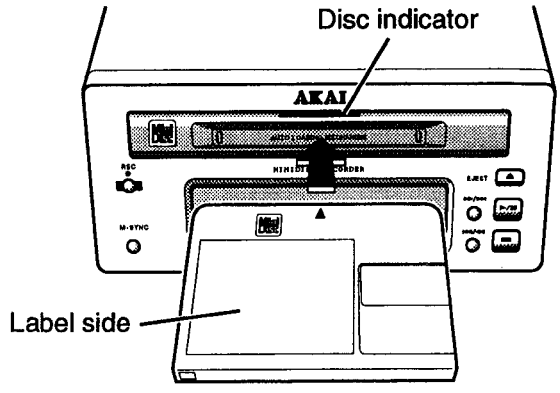
Auto playback

1 **While pressing the ▶ button on the main unit, press the ◀◀ button to rewind the tape and start forward playback from the beginning of the tape.**

2 **While pressing the ◀ button on the main unit, press the ▶▶ button to fast forward the tape and start reverse playback from the beginning of the tape.**

Note:
- The remote control can not be used for auto playback operation.

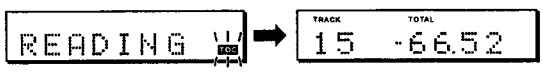
MD playback



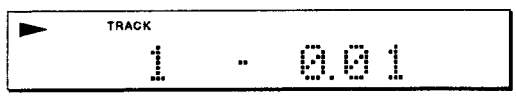
- Insert the MD fully into the MD slot in the direction of the arrow (▲/▲) with the label side facing up.
- Make sure that the MD is positioned correctly for insertion. Do not force it into the slot.
- When the MD is inserted the disc indicator will light, indicating that the MD is inserted.

MD playback

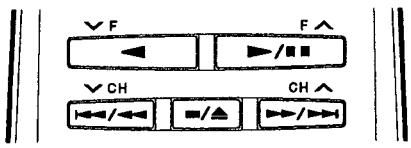
1 **Insert an MD for playback.**
"**READING**" will appear on the FL display while the MD's data is being read. After all data has been read, the number of tracks recorded on the MD and total playback time will be displayed.



2 **Press the MD button to select MD input and start playback.**



3 **Press the ■ button to stop playback.**



When the "MD" source input is selected, the remote control's basic operation buttons can be used to control MD operations.

►/❚❚ ..... Playback/pause button
⏮/◀◀ ..... Fast reverse/back skip button
▶▶/⏭ ..... Fast forward/forward skip button
■/⏏ ..... Stop/MD eject button

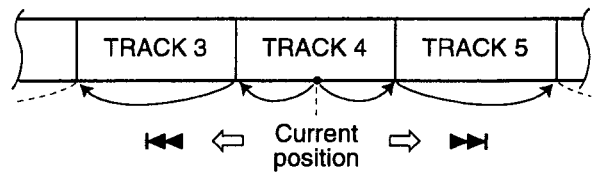
Direct search

The remote control's 10 key buttons can be used to start playback from a specific track.

■ **Using the 10 key buttons:**
- **To select track 4:**
  Press the 4 button.
- **To select track 10:**
  Press the +10 button, then press the 0 button.
- **To select track 31:**
  Press the +10 button 3 times, then press the 1 button.

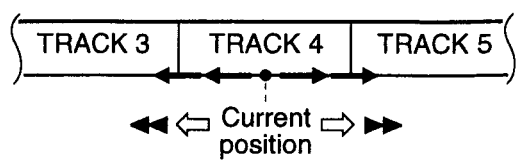
Skip search / Manual search

■ Skip search



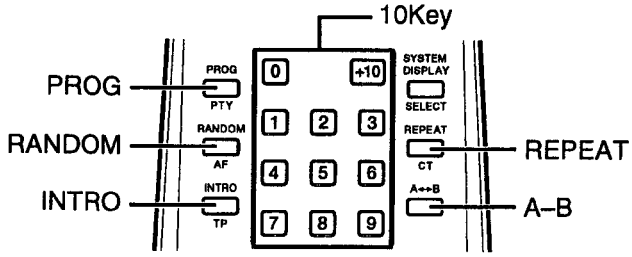
- Press the ▶▶ / ⏭ button to skip to the start of the next track.
- Press the ⏮ / ◀◀ button to skip to the start of the current playback track. Keep pressing the ⏮ / ◀◀ button to skip tracks in the reverse direction.
- Tracks can also be skipped by turning the JOG dial.

■ Manual search



- Press and hold the ▶▶ / ⏭ button for fast forward search.
- Press and hold the ⏮ / ◀◀ button for fast reverse search.

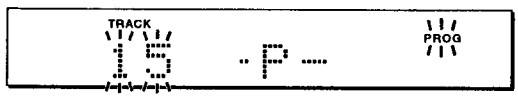
MD playback features



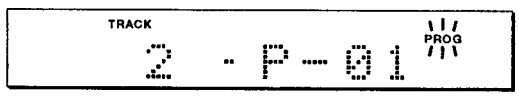
Programme playback (PROG)

Tracks can be programmed to playback in any order that you like. Up to 25 tracks can be programmed.

1 **While the MD is in the stop mode, press the PROG button.**
"**P-**" will appear on the FL display, and the MD's track number and "**PROG**" indicator will flash.



2 **Press the 10 key buttons to programme tracks in the order that you want.**
Each time a track number is input, the programme number (**P-01**, **P-02** etc.) will appear.



3 **Press the ► button to start programme playback.**
During programme playback, the "**PROG**" indicator will light on the FL display.

- Even when playback of the specified programme is finished, the programme mode will not be cancelled.

■ **To programme additional tracks:**
During the stop mode, press the PROG button again and repeat step 2.

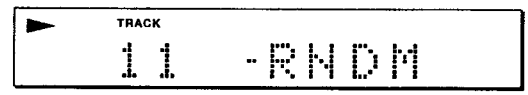
■ **To cancel programme playback:**
- After pressing the ■ button to stop playback, press the CLEAR button. The "**PROG**" indicator on the FL display will go out and programme playback will be cancelled.
- Pressing the 10 key buttons, INTRO button or RANDOM button etc., will engage the selected playback mode.

Note:
- Pressing the PROG button during MD playback will not engage the programme playback mode.

RANDOM playback

Tracks can also be played back in a random order.

1 **Press the RANDOM button.**
"**RNDM**" will appear on the FL display, tracks will be randomly programmed, and playback will start.



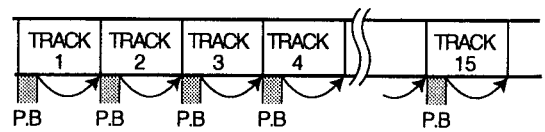
- Random playback will stop when the programme is finished.

■ **To cancel random playback:**
- Press the ■ button. Random playback will be cancelled and playback will stop.
- Pressing the 10 key buttons, or INRO button etc., will engage the selected playback mode.

Note:
- To switch from the random playback mode to the programme playback mode, first cancel the random playback mode and then proceed with programme playback operation.

INTRO playback

The intro of all the tracks recorded on a disc can be played back in order for approximately 10 seconds.



1 **Press the INTRO button.**
"**INTRO**" will appear on the FL display, and intro playback will start from track 1.

- The intro playback mode will be cancelled when all track intros have been played back.

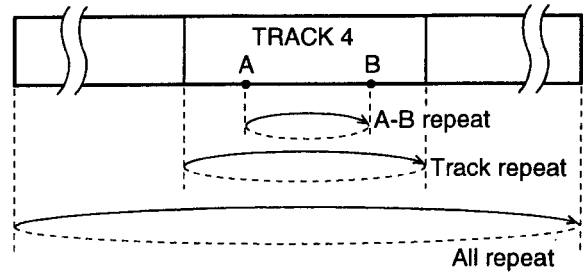
■ **To cancel intro playback:**
- Press the ■ button. Intro playback will be cancelled and playback will be stopped.
- Pressing the 10 key buttons, or RANDOM button etc., will engage the selected playback mode.

Note:
- To switch from the intro playback mode to the programme playback mode, first cancel the intro playback mode and then proceed with programme playback operation.

Repeat playback

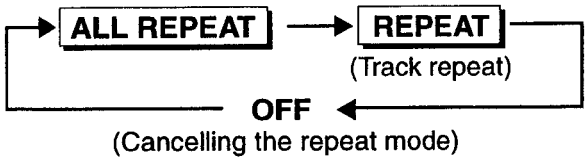
Use this function to repeat normal playback, programme playback, random playback or intro playback.

- **ALL REPEAT:**
  All the tracks will be played repeatedly.
- **Track REPEAT:**
  The current track being played back will be played repeatedly.
- **A-B repeat:**
  The specified section (A-B) will be played repeatedly.



ALL REPEAT / Track REPEAT

Press the REPEAT button during MD playback to select the repeat mode.
The repeat mode will be displayed on the FL display.



■ The "**ALL REPEAT**" mode can be selected during MD programme playback, random playback or intro playback, for repeat playback of all tracks in that mode.

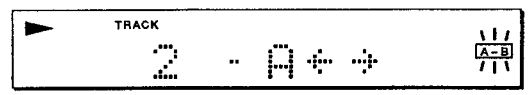
■ **Cancelling the ALL REPEAT mode:**
- Press the REPEAT button. The "**ALL REPEAT**" indicator on the FL display will go out, the all repeat mode will be cancelled, and the normal playback mode will be engaged.

■ **Cancelling the track REPEAT mode:**
- Press the REPEAT button. The "**REPEAT**" indicator on the FL display will go out, the repeat mode will be cancelled, and the normal playback mode will be engaged.
- Pressing the 10 key buttons, RANDOM button or INTRO button etc., will engage the selected playback mode.

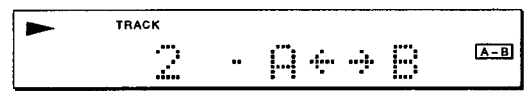
Note:
- The track REPEAT mode can not be selected while the MD is in the stop mode.

A-B repeat

1 **During MD playback, press the A-B button at the point where you want repeat playback to start (A).**
"**A←→**" will appear on the FL display and "**A-B**" will flash.



2 **Press the A-B button again at the point where you want repeat playback to stop (B). A-B repeat will start.**

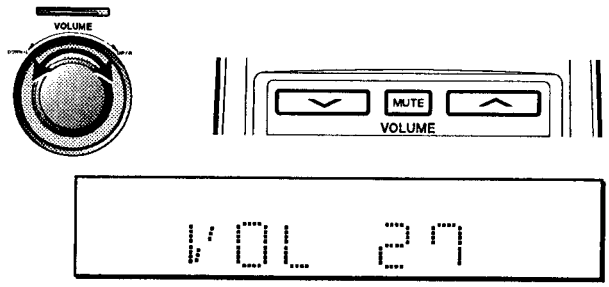


- The "**A-B**" indicator will light on the FL display during A-B repeat playback.

■ **Cancelling A-B repeat:**
- Press the CLEAR button. The A-B repeat mode will be cancelled.
- Pressing the 10 KEY buttons, RANDOM button or INTRO button etc., will engage the selected playback mode.

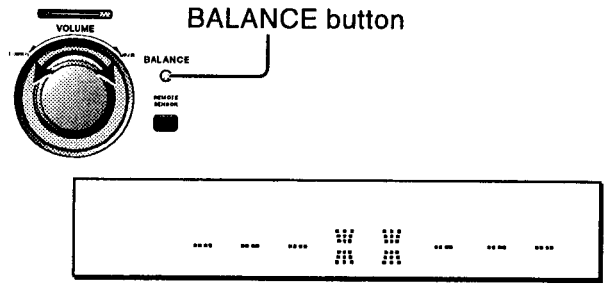
Note:
- A-B repeat can only be used within one track.

Sound adjustment



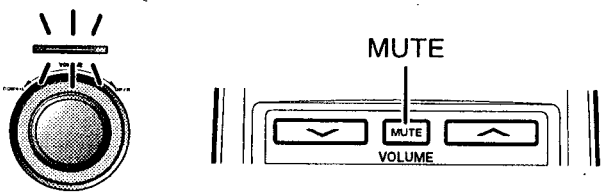
Volume adjustment

Adjust the volume with the main unit's VOLUME control or the remote control's VOLUME ∧ / ∨ buttons.
When the volume is adjusted, the volume level will appear on the FL display for a few seconds.



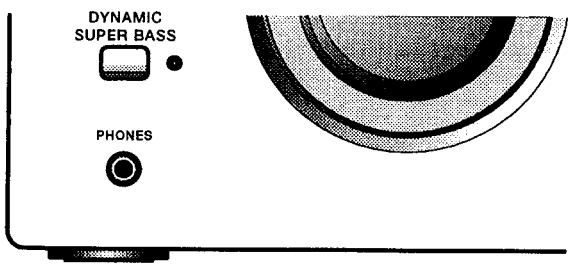
Balance adjustment

When the BALANCE button is pressed, "- - - ▮ ▮ - - -" will appear on the FL display for about 2 seconds. Turn the VOLUME control to the left or right to adjust the balance.



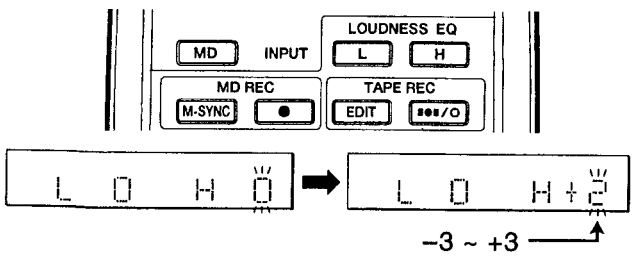
Mute

The volume can be cut temporarily by pressing the MUTE button on the remote control. When the mute mode is engaged, the power indicator will change to orange and flash. Pressing the MUTE button again will return the volume to the original level. Turning the power off during the mute mode will cancel the mute mode.



Dynamic Super Bass

Press the system's DYNAMIC SUPER BASS button to engage the super bass mode. The indicator will light to indicate that super bass is engaged. Super bass boosts the bass at low volume levels. The effect will be lessened when the volume is set to a high level.
Press the DYNAMIC SUPER BASS button again to turn the super bass mode off.

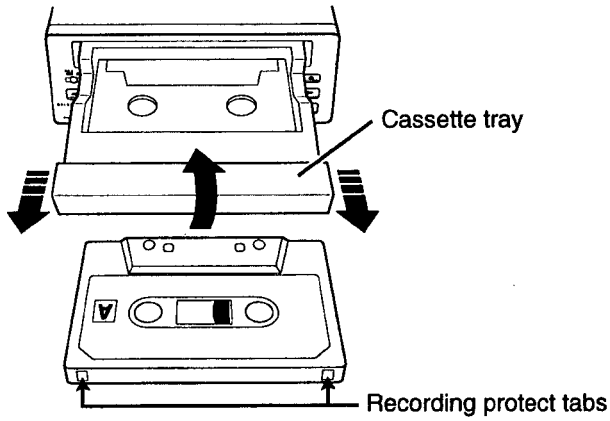


Loudness EQ (equalizer)

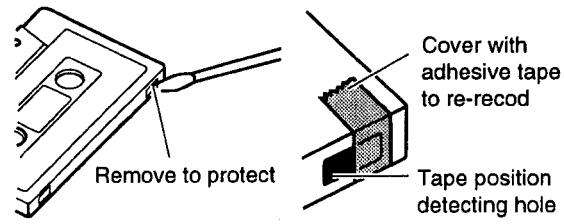
"Loudness" adds compensation to bass sounds that are hard to hear at low volumes.
Loudness EQ adds an equalizer function, and allows selection of the desired playback sound without loss of fidelity.

- Press the LOUDNESS EQ L or H button to select bass (L) or treble (H) and set the level (-3 ~ +3) with the JOG dial.
- The loudness equalizer will be set to its flat setting when the bass and treble levels are set to 0 (L0 H0).

Cassette deck recording



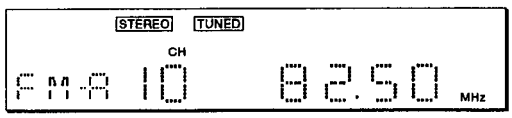
- When recording the A side of the tape in the forward direction (regular direction) insert the tape with the A side facing upward.
- Cassette tapes have recording protect tabs for prevention against accidental erasure. When these tabs are broken, the tape can not be recorded on. To record on such a tape, cover the holes with adhesive tape.



■ **If you want to use DOLBY B NR (Noise Reduction) when recording, set the DOLBY NR button to the ON (▬) position before you start recording.**

Recording from the tuner

1 Set the input source to "TUNER" and select the preset CH of the radio station that you want to record.



2 Press the TAPE REC ⏺ / ○ button to engage the recording standby mode.
The red recording indicator will light and the direction indicator (◁ or ▷) will flash.

- When recording in the opposite direction of the flashing tape direction indicator, press the system's ◀ or ▶ button to change the tape direction.

3 Press the ▶ or ◀ button to start recording.

4 Press the ■ button to stop recording.

■ During recording, pressing the ⏺ / ○ button at the point where you want to stop recording will create a 4 second blank and engage recording standby.

Note:
- When recording in the forward direction is finished, recording will continue on the reverse side of the tape and then automatically be stopped when the end of side B is reached.

Beat cancel

(For models with LW tuner band only)
When recording the MW or LW tuner band, if noise (high pitch sound) occurs during the rec/pause mode when the ⏺ / ○ button is pressed, please press the TUNER button.

Recording from a CD or MD

1 Press the CD or MD button to select the input source and load a CD or MD.

- Because playback will start when the CD or MD is inserted, press the ■ button to stop playback.

2 Press the TAPE REC ⏺ / ○ button to engage the recording standby mode.
The red recording indicator will light and the direction indicator (◁ or ▷) will flash.

- When recording in the opposite direction of the flashing tape direction indicator, press the system's ◀ or ▶ button to change the direction.

3 Press the ▶ button to start simultaneous playback of the CD or MD and tape recording.
- Please note that recording will not start if the 10 key buttons are used for direct search of a track.

4 Press the ■ button to stop recording.
Recording will be stopped after a 4 second blank has been created.

■ During recording, pressing the ⏺ / ○ button at the point where you want to stop recording will create a 4 second blank and engage the recording standby mode.

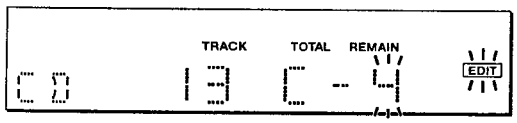
Note:
- Programmed tracks can be recorded by referring to the CD or MD programme playback section (page 20) and programming the tracks you wish to record beforehand.
- Recording can be started from the desired track number by using the JOG dial to specify a track number beforehand.

CD edit recording

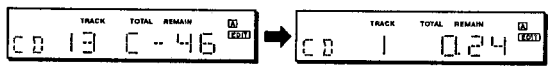
The track numbers on a CD can be edited automatically to fit within the recordable time of the A and B sides of the cassette tape that you are recording on.

1 **Press the CD button to set the input source to "CD" and load the CD and tape.**
Load the tape with the A side facing up.

2 **Press the EDIT button.**
"**EDIT**" and "**C-4**" will flash on the FL display after CD data has been read.

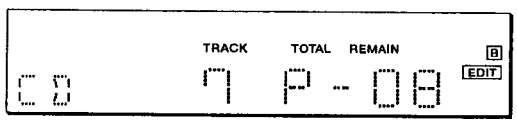


3 **Set the recording length of the tape being used.**
- **When using a C-46 tape:**
  Press button 6.



- **When using a C-60 tape:**
  Press the +10 button until "**C-6**" appears and then press the 0 button.
- If you have selected the wrong tape length, press the CLEAR button to cancel the setting, then repeat the operation.
- After the tape length has been set, pressing the EDIT button once again will display the track numbers that will be recorded on side B and the remaining recording time.

■ After specifying the length, the programmes that will be recorded on the A and B sides can be alternately displayed by pressing the ⏮ / ◀◀ or ▶▶ / ⏭ button.



4 **Press the ▶ button to start CD edit recording.**
The tape will be rewound to the beginning of side A and recording and CD playback will automatically start at the same time.
- Pressing the ▶ button while the B side indicator is displayed will start recording of only the B side programme.

Note:
- It a tape is not loaded, or if the cassette's recording prevention tabs have been removed, "**EDIT ERR**" will appear on the FL display.

Auto mute

A 4 second blank space can be automatically created between tracks.

1 **During recording, press the TAPE REC ⏺/ ⏸ button where you want to create the blank space.**
The auto mute mode will be engaged, and the REC indicator will flash quickly while a blank space is created. After 4 seconds the recording standby mode will be engaged.

Bulk erase

Use this feature to erase tapes that have been recorded on.

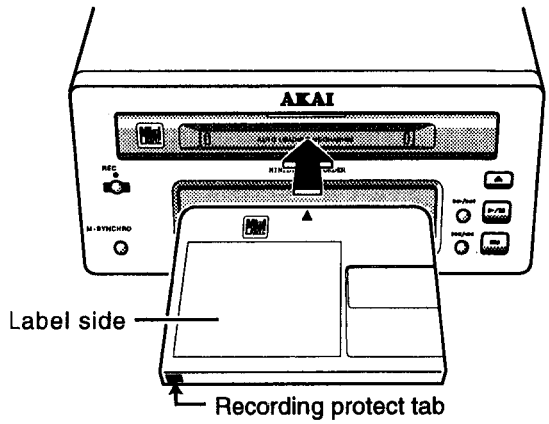
1 **Load the tape you want to erase.**

2 **Press the ⏺ / ⏸ button to engage the recording standby mode.**

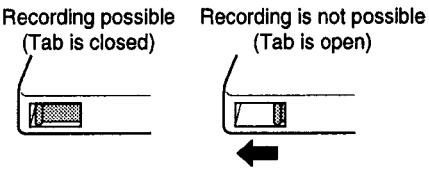
3 **Press the ⏺ / ⏸ button again 2 times in a row.**
The REC indicator will flash quickly and bulk erasing will begin.

Note:
- Bulk erase will not function when the source input is set to "TAPE".

MD recording

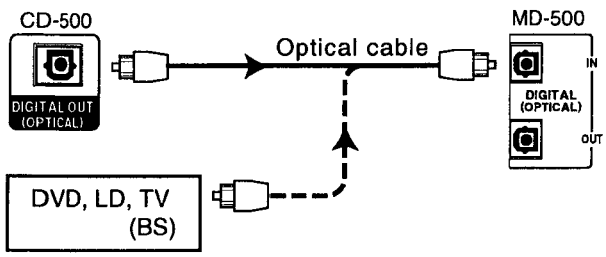


- Insert the MD fully into the MD slot in the direction of the arrow (▲/▲) with the label side facing up.
- Make sure that the MD is positioned correctly for insertion. Do not force it into the slot.
- Make sure that the MD's recording protect tab is closed. If it is open, close it by sliding it to the left.



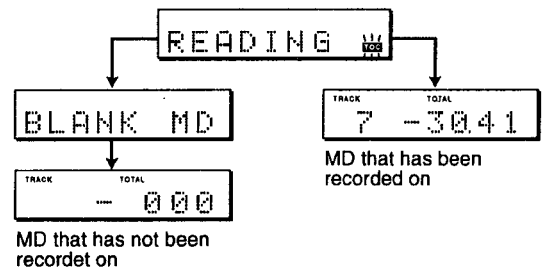
The MD can record signals from the tuner, CD player, cassette deck or components externally connected to the AUX terminal.

- When recording from the TUNER, TAPE or AUX input source, the analog signal will be converted through Analogue/Digital (A/D) conversion and recorded as a digital signal.
- The digital signals of a CD or external component connected to the MD's digital input will be recorded directly. In this case, press the CD button to select "CD" source input.



■ When recording from a CD, it is necessary to connect the CD player and MD with an optical cable.
If an optical fiber cable is not connected, and recording is attempted, **"UNLOCK"** will appear on the FL display and recording will not be possible.

■ The FL display will change as follows according to the recorded condition of the loaded MD.



About MD data writing

When ejecting an MD after recording or editing of its contents, the disc will be ejected after MD data writing has finished ("WRITING" will be displayed on the FL display at this time). Also, when the power is turned off while an MD is still loaded, the power will be cut after writing has finished.

- After MD recording or editing, do not suddenly cut the power by unplugging the power cord from the AC power outlet. This may cause improper recording. Always finish writing by ejecting the disc or pressing the ⏻ / I button to turn the power off.

About track numbers

Track numbers are necessary for intro search during playback, and editing of recorded tracks.

■ Track numbers will be newly assigned automatically at the following times:
- When MD recording is resumed after it has been paused.
- If the CD track is changed during recording from a CD, a track number will be assigned.
However, when recording classic music or a live performance, track numbers may not be assigned.

■ Track numbers can be assigned manually as follows.
- During recording, press the DIVIDE button at the point that you want to assign a track number.

Recording from a CD

1 **Press the CD button to select "CD" source input, and load the MD disc and CD disc.**

2 **Press the MD REC ⏺ / ○ button to engage the recording standby mode.**
"**REC II**" will appear on the FL display.

- When an MD that has already been recorded on is used, recording will start from the next track number after the last one recorded.
- When an MD that has been recorded to its full capacity is loaded, "**FULL**" will appear on the FL display and the recording mode will be cancelled.
  In this case, carry out disc erasing (page 28).

3 **Press the ▶ button to start recording.**
CD playback and MD recording will start simultaneously.

- Recording can be started from a specific track number by using the JOG dial or ▶▶ / ▶▶| button to select a track number during the recording standby mode.
- 10 key buttons can not be operated during recording.

4 **Press the ■ button to stop recording.**
The CD and MD will be stopped simultaneously, and the MD recording mode will be cancelled.

Note:
- During recording, selection of another input source is not possible.
- Recording of specific CD playback tracks is possible by programming the tracks you want beforehand.

Recording from the tuner

1 **Press the TUNER button to select "TUNER" source input, and select the preset CH that you want to record with the 10 key buttons or JOG dial.**

2 **Press the MD REC ⏺ button to engage the recording standby mode.**

3 **Press the ▶ button to start recording.**

4 **Press the ■ button to stop recording.**

Recording from the cassette deck

1 **Press the TAPE button to select the "TAPE" source input, and insert the cassette tape.**

2 **Press the MD REC ⏺ button to engage the recording standby mode.**

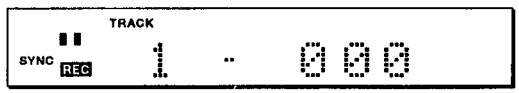
3 **Press the ▶ button to start recording.**
Cassette deck playback and MD recording will start at the same time.

4 **Press the ■ button to stop cassette deck playback and MD recording.**

M-SYNC recording

M-SYNC starts recording on the MD simultaneously with recording signal input .
When this feature is used when recording from an external component, recording will be started when playback is started on the external component.

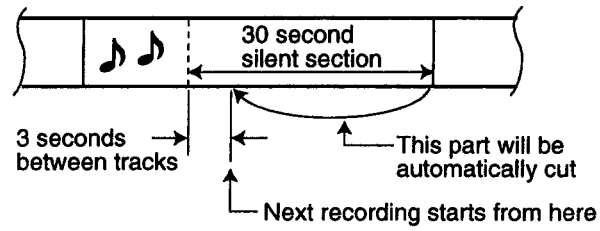
1 Press the M-SYNC button, and then, while the "SYNC REC" indicator is flashing, press the REC button to engage the M-SYNC recording standby mode.
"SYNC REC" will appear on the FL display.



2 Start playback of the external component.
Recording on the MD will automatically start when the signal is input into the MD recorder.

Note:

- If a silent section continues for 30 seconds during M-SYNC recording, recording will be paused, a 3 second blank between tracks will be kept, and the remaining silent section will be cut.

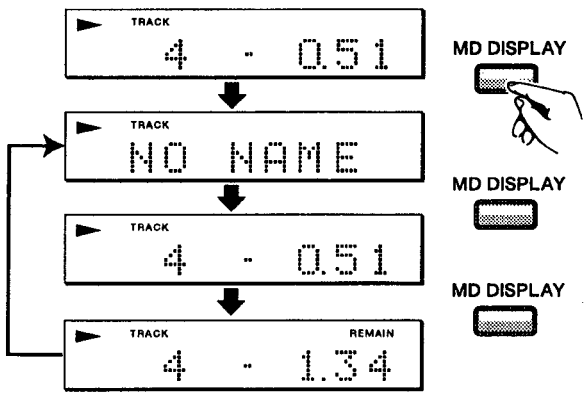


- If the level of the first section of the input signal is low, the first part of the recorded sound may be missing.

Selecting the display modes

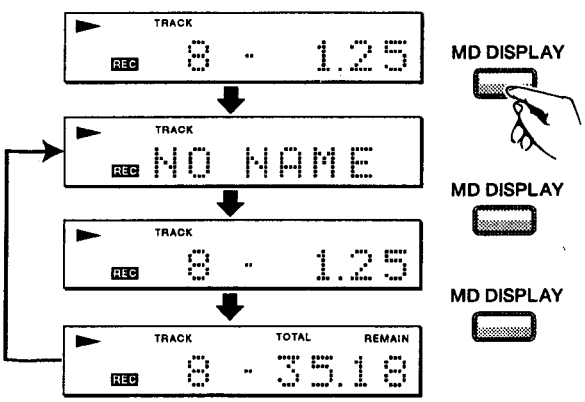
The MD's FL display mode can be changed by pressing the MD DISPLAY button.

During the playback mode:



- Press the MD DISPLAY button while the playback track's track number is displayed. Although the TITLE will be displayed, continue to press the MD DISPLAY button.
- Track title (8 letter display)
  When a track title has not been input, "NO NAME" will appear.
- Elapsed time display of track being played back.
- Remaining time display of track being played back.

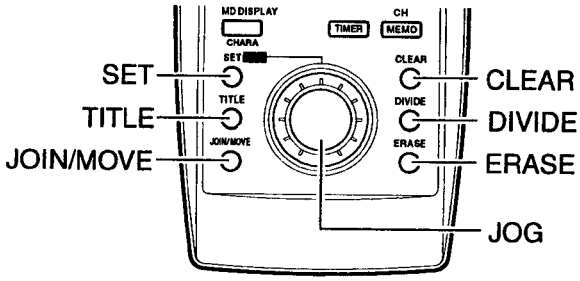
During the recording mode:



- Press the MD DISPLAY button while the recorded track's track number is displayed. Although "NO NAME" will be displayed, continue to press the MD DISPLAY button.
- NO NAME
  (Track titles are input after recording.)
- Elapsed time display of track being recorded.
- Remaining time available for recording.

MD editing functions

After recording on an MD, the MDs editing function can be used to change track numbers, connect tracks etc.. Also, titles can be assigned to the disc or tracks.

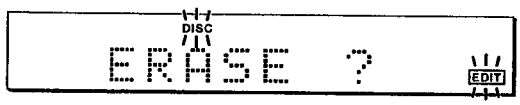


Erase mode

There are two erase modes: DISC ERASE, for erasing all tracks on a disc and TRACK ERASE, for erasing specific tracks.

Disc erase

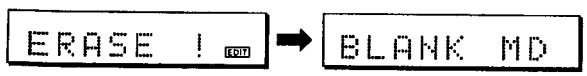
1 **During the MD stop mode, press the ERASE button.**
"**ERASE?**" will appear on the FL display.



2 **Press the SET button.**
"**ERASE?**" will start flashing.

To cancel the erase mode at any time during operation, press the CLEAR button.

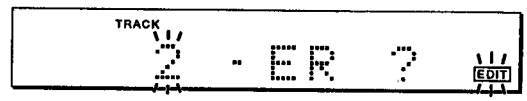
3 **Press the ERASE button.**
"**ERASE!**" will appear on the FL display, and then "**BLANK MD**" indicating that all tracks and titles have been erased.



Track erase

1 **Select the track you want to erase using the 10 key buttons.**
Although playback will start when the 10 key button is pressed, erasure can be carried out during playback.

2 **Press the ERASE button.**
"**2-ER?**" will appear on the FL display, and the track number of the track to be erased will flash.



3 **Press the SET button.**
"**ERASE?**" will appear and flash.

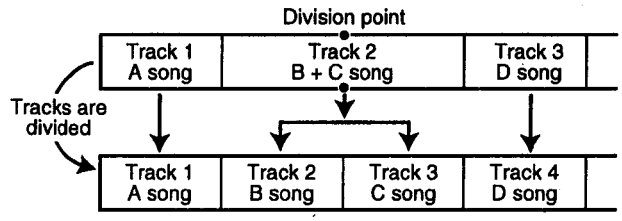
To cancel the erase mode at any time during operation, press the CLEAR button.

4 **Press the ERASE button.**
"**ERASE!**" will appear on the FL display and then be replaced by the discs initial display, indicating that the specified track has been erased.

Note:
- After track erase, the track numbers of the following tracks will be advanced automatically.
- Complete the erasure procedure before playback of the track finishes.
- If the track is short, use the JOG dial to select the track number, and carry out erasure during the stop mode.

Dividing tracks

Recorded songs can be divided into 2 tracks and assigned new track numbers.
This function is convenient for dividing a track when more than one song is recorded within it, or for creating a starting point within a song.



1 **During playback, press the DIVIDE button at the point that you want to divide the song.**
"**DIVIDE?**" will appear on the FL display, and approximately 4 seconds of the song from the division point will be repeatedly played back.

2 **The division point can be moved forward or backward by turning the JOG dial.**
Fine adjustment of the division point is possible within a range of +127 steps and -128 steps.

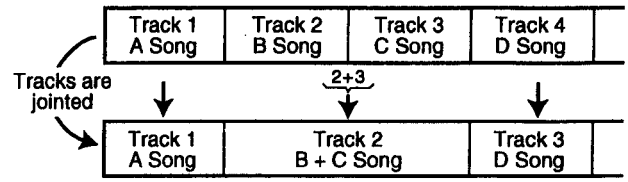
3 **Press the DIVIDE button.**
"**DIVIDE!**" will appear on the FL display, and playback will start from the newly assigned TRACK number.

■ **To cancel the divide mode at any time during operation, press the CLEAR button.**

Note:
- When a new track number is added, the track numbers of the following tracks will be automatically carried forward.
- Track titles will not be assigned to newly divided tracks.

Joining tracks

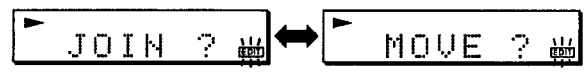
Tracks can be joined to the track in front and assigned one track number.
This function is convenient for joining short recorded segments into one segment.



1 **Press the 10 key buttons to select the number of the track to be joined.**

Ex : When joining tracks 2 and 3.
- Press the 3 button.
  Playback of track 3 will start.

2 **Press the JOIN/MOVE button to select "JOIN?".**
"**JOIN?**" will appear on the FL display. Each time the button is pressed the display will move between "**JOIN?**" and "**MOVE?**"



3 **Press the SET button.**
The numbers of the tracks to be joined will flash on the FL display.

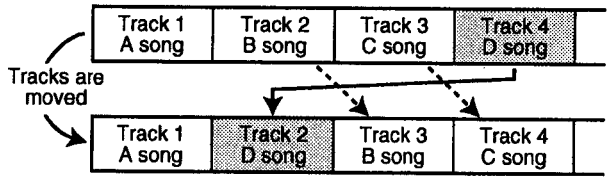
4 **Press the JOIN/MOVE button.**
"**JOIN!**" will appear on the FL display and playback will start from the beginning of the new track number 2.

■ **To cancel the join mode at any time during operation, press the CLEAR button.**

Note:
- When tracks are joined, the track numbers of the following tracks will be advanced automatically.
- Complete the joining procedure before playback of the joining track finishes.
- If the track is short, use the JOG dial to select the track number, and carry out joining during the stop mode.

Moving tracks

The order of recorded tracks (songs) can be rearranged.



1 Select the track number to be moved with the 10 key buttons.

Ex : When moving track number 4 to track number 2:

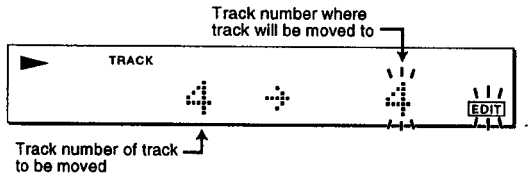
- Press the 4 button.
  Playback of track 4 will start.

2 Press the JOIN/MOVE button to select "MOVE?"

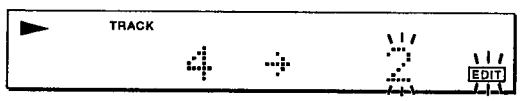
"**JOIN?**" will appear on the FL display. Each time the button is pressed the display will alternate between "**JOIN?**" and "**MOVE?**".

3 Press the SET button.

The number of where the track will be moved to will flash on the FL display.



4 Use the JOG dial to input the track number where the track will be moved to at the flashing track number.



5 Press the JOIN/MOVE button.

"**MOVE!**" will appear on the FL display, and playback will start from the beginning of the moved track number 2.

■ **To cancel the move mode at any time during operation, press the CLEAR button.**

Note:

- When a track (song) is moved, its number will be changed while it is being moved.
- Complete the move procedure before playback of the track being moved finishes.
  If the track is short, use the JOG dial to select the track number, and carry out moving during the stop mode.

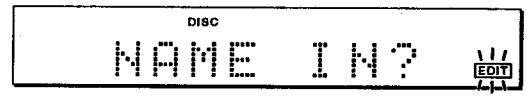
Assigning titles

Titles can be assigned to the recorded MD disc or tracks. Titles can be created from letters symbols or numbers.

- **When inputting disc titles, carry out the following procedure while the MD is in the stop mode.**
- **When inputting track titles, first select the number of the track with the 10 key buttons or the JOG dial, then carry out the following procedure.**

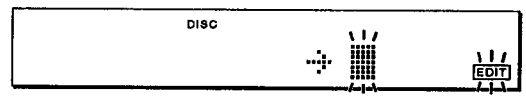
1 Press the TITLE button.

"**NAME IN?**" will appear on the FL display.



2 Press the SET button.

The title input cursor will appear and flash.



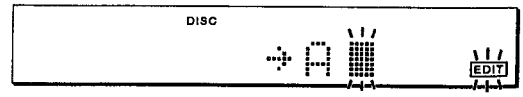
3 Turn the JOG dial to select the letter for input at the flashing cursor.

- Pressing the CHARA button will display the first character of available letters, numbers and symbols (A, a, 0, !) in order.
- Turning the JOG dial will display the characters within the selected type in order as shown below.

Alphabet (capital letters)	A B C ~ X Y Z						
Alphabet (small letters)	a b c ~ x y z						
Numbers	0 1 ~ 9						
Symbols	!	"	#	$	%	&	'
	(	)	*	+	,	-	.
	/	:	;	<	=	>	?
	@	^	_	`			

4 Press the SET button to input the flashing character.

The cursor will move to the next input position.



- To input a blank, press the SET button when there is no character selected at the flashing cursor.
  When a character is input at the cursor, it can be erased by pressing the ERASE button.

5 **Repeat steps 3 and 4 to create a title.**
Up to 7 letters can be displayed at the same time during title creation. If more than 7 letters are input, letters will be moved along in the order they are displayed.

6 **Press the TITLE button to input the title.**
After the complete input title is scrolled through, the first 8 letters of the title will be displayed.

■ **To cancel the title mode at any time during operation, press the CLEAR button.**

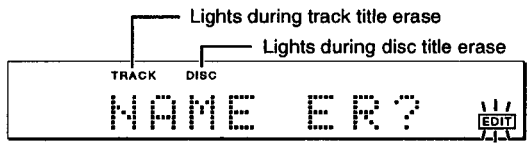
Note:
- Titles can not be input on commercially sold pre-recorded music discs.
- When an MD that has titles input using this player is played back on another company's player, or when an MD with titles recorded on another company's player is played back on this unit, titles may not be displayed correctly.
- Carry out the track title procedure before playback of the track being assigned a title finishes.
  If the song is short, use the JOG dial to select the track number, and input the title during the stop mode.

Correcting titles

- **When correcting disc titles, first set the MD to the stop mode, then carry out the following procedure.**
- **When correcting track titles, select the number of the track to be titled with the 10 key buttons or JOG dial, then carry out the following procedure.**

■ Erasing a title:

1 **Press the TITLE button two times in a row.**
"NAME ER?" will appear on the FL display.

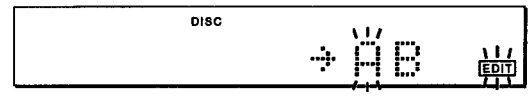


2 **Press the SET button.**
"NAME ER?" will appear and flash.

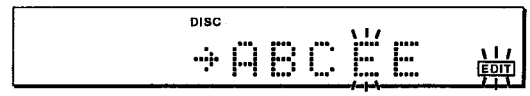
3 **Pressing the TITLE button will display "ERASE!" and the title will be erased.**

■ Correcting titles:

1 **Press the TITLE button, then press the SET button.**
The first two letters of the input title will appear on the FL display.



2 **Press the ▶▶ / ▶▶| button to move the cursor to the letter to be corrected.**



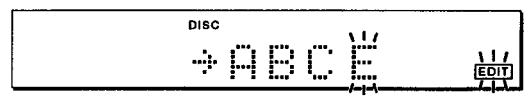
3 **Select the new letter with the JOG dial.**
To erase the letter, press the ERASE button.

4 **Press the TITLE button to input the correction.**

■ Adding title letters:

1 **Press the TITLE button, then press the SET button.**
The first two letters of the input title will appear on the FL display.

2 **Press the ▶▶ / ▶▶| button to move the cursor to the letter to be added.**

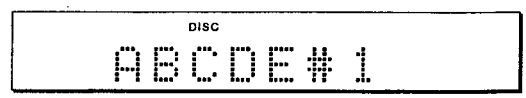


- Ex: When adding "D" between the "C" and "E" of title "ABCE #1", move the cursor to "E".

3 **Select the letter to be added (D) with the JOG dial.**

4 **Press the SET button to input the added letter.**

5 **Press the TITLE button.**

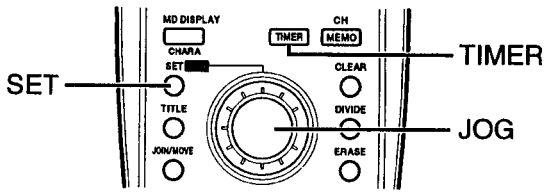


Timer controlled features

There are three types of timer controlled functions that make use of the system's built-in clock.

- **Timer recording**
- **Timer wake**
- **Sleep timer**

Although operation of each timer mode is limited to one time, the last programmed timer mode will be memorized.



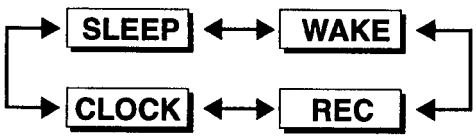
Timer recording

A radio broadcast can be timer-controlled for recording to a tape or MD.

1 **Press the TUNER button to select the "TUNER" source input, and select the preset channel of the station to be recorded.**

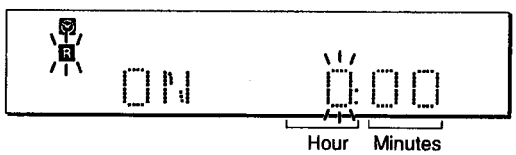
2 **Load the tape or MD for recording. Load both to record on both simultaneously.**

3 **Press the remote control's TIMER button.**
"SLEEP" will appear flashing on the FL display.

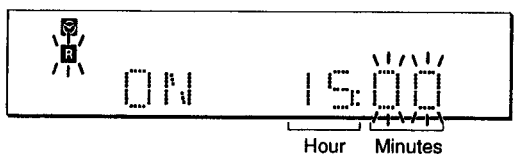


4 **Turn the JOG dial to select "REC".**

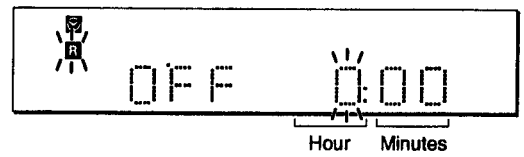
5 **Press the SET button.**
The timer recording indicator and turn on time setting display will appear on the FL display.



- **Turn the JOG dial to input the flashing hour and press the SET button.**
- **Turn the JOG dial to input the flashing minutes.**

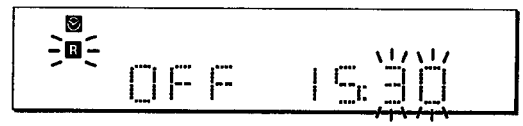


6 **Press the SET button.**
The turn off time setting display will appear on the FL display.



- **Turn the JOG dial to input the flashing hour and press the SET button.**
- **Turn the JOG dial to input the flashing minutes.**

7 **Press the SET button.**
The recording component indicator, **"TAPE/MD"**, will flash on the FL display.

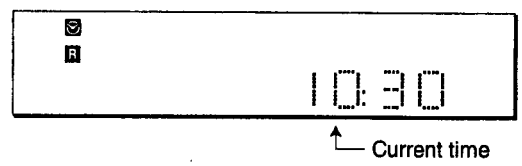


- **Select TAPE, MD or both with the JOG dial.**

8 **Press the SET button to finish programming.**

9 **Press the ⏻ / I button to turn the power off.**

10 **Press the TIMER button to display the " ⏲ " and " R " indicators on the FL display.**



■ **To cancel timer recording press the TIMER button while the power is off.**
The " ⏲ " and " R " indicators will disappear from the FL display, and timer recording will be cancelled.

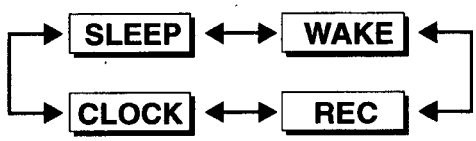
Timer wake

Timer wake using the TUNER, TAPE, CD or MD sources is possible. This feature is convenient for waking yourself up in the morning.

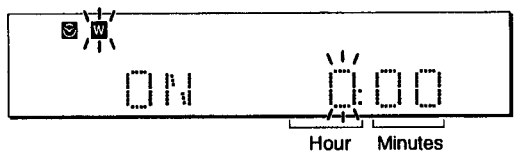
1 **Load the tape or disc into the playback component. If using the tuner, select the preset CH that you want.**

2 **Press the remote control's TIMER button.**
"SLEEP" will appear on the FL display.

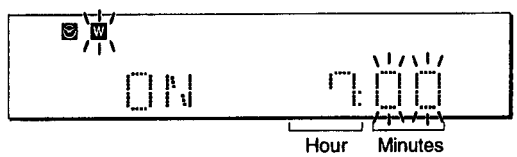
3 **Turn the JOG dial to select "WAKE".**
The display will change continuously as follows when the JOG dial is turned.



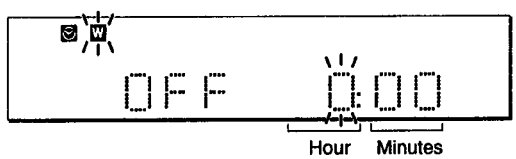
4 **Press the SET button.**
The timer wake turn on time setting display will appear on the FL display.



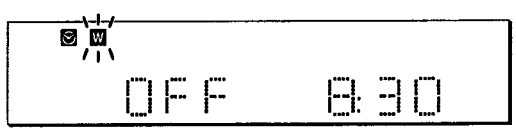
- **Turn the JOG dial to input the flashing hour and press the SET button.**
- **Turn the JOG dial to input the flashing minutes.**



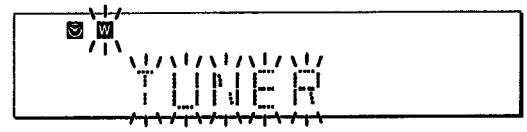
5 **Press the SET button.**
The timer wake playback turn off time setting display will appear on the FL display.



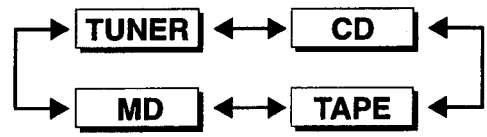
- **Turn the JOG dial to input the flashing hour and press the SET button.**
- **Turn the JOG dial to input the flashing minutes.**



6 **Press the SET button.**
The playback component will appear on the FL display.



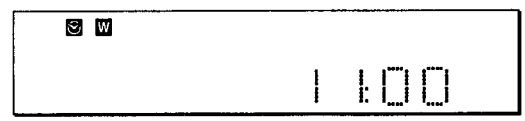
- **Turn the JOG dial to select the playback component.**



7 **Press the SET button to finish programming.**

8 **Press the ⏻ / I button to turn the power off.**

9 **Press the TIMER button to display the " ⏲ " and " W " indicators on the FL display.**



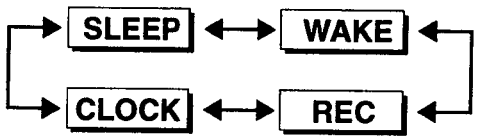
■ **To cancel timer wake press the TIMER button while the power is off.**
The " ⏲ " and " W " indicators will disappear from the FL display, and timer wake will be cancelled.

Sleep timer

The sleep timer feature can be used to turn the system off automatically at a set time.
The turn off time can be selected from 4 different settings: 30 min, 1 hour, 1 hour 30 min., or 2 hours.

1 **Press the remote control's TIMER button.**
"**SLEEP**" will appear on the FL display.

2 **Turn the JOG dial to select "SLEEP".**
The display will change continuously as follows when the JOG dial is turned.



3 **Press the SET button.**
The turn off time will appear on the FL display.

4 **Turn the JOG dial to select the sleep timer turn off time.**

2:00 ..... The system's power will be turned off in 2 hours.
1:30 ..... The system's power will be turned off in 1 hour, 30 min.
1:00 ..... The system's power will be turned off in 1 hour.
0:30 ..... The system's power will be turned off in 30 min.
- - : - - ..... Sleep timer off.

5 **Press the SET button.**
The "**SLEEP**" indicator will appear on the FL display.

Note:
- The remaining time until sleep timer is engaged can be displayed during sleep timer operation by pressing the TIMER button, and then pressing the SET button.
- To change the sleep timer time, repeat the above procedure.

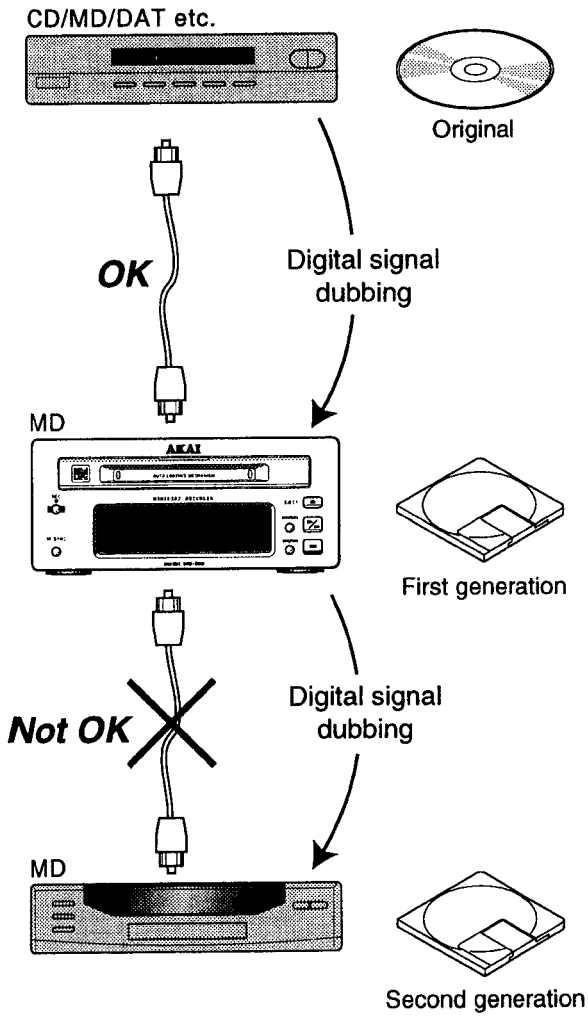
Note:
If the power is cut by power failure, or by unplugging the power cord, the programme may be cancelled or may not operate properly.

About digital dubbing rules

Because of considerations concerning copyright etc., the following rules apply to discs dubbed from digitally recorded CD, MD and DATs etc using the optical digital terminal.

■ **SCMS (Serial Copy Management System)**

Using the digital input terminal, the sound on CDs, MD and DATs can be recorded to MD discs clearly and with little deterioration of sound quality. This "digital to digital recording" capability is limited to "first generation only" copies through use of the SCMS standard and the QZ-500 system has been designed as a digital component conforming to this standard.
When a "copy of a copy" is attempted, The "SCMS" error message appears, and dubbing is prevented.



About MiniDisc limitations

Recording on MDs is carried out using a different system to the traditional system employed on cassette decks and DATs. Because of this difference, MDs have system limitations that will sometimes result in the following conditions. Please understand before hand that these conditions are not caused by malfunction of this unit.

■ **"FULL" appears even though the maximum recording time possible (74 minutes, 60 minutes) has not been reached.**

On MDs, regardless of the maximum recording time, the number of tracks recordable is limited, and when this number exceeds 255 tracks, further recording is impossible.

■ **"FULL" appears even though there is still room for more tracks or recording time is available.**
■ **The join function can not be operated**
■ **A short song is erased but the remaining time does not increase.**
■ **Sound is cut during search.**

Repeatedly erasing and recording over sections will create empty spaces here and there on the disc. When recording on such a disc, the MD separates the data precisely and records it in an empty space. During recording, when the number of separated sections increases, "FULL" may appear. When a separated section of less than 8 seconds has been created, that song can not be joined using the join function. Also, erasing that section will not increase the remaining time. When searching for songs that have been finely separated and recorded, sound drop out may occur.

■ **The total time of tracks recorded on the disc and remaining recordable time does not total the maximum recordable time (74 minutes. 60 minutes.) of the disc.**

Unless there is at least 2 seconds of continuous space on an MD, recording will not be possible. Because of this, on a disc that has many short empty spaces, the actual recordable time will be shortened.

MD message chart

MESSAGE	MEANING
BLANK MD	A disc with nothing recorded on it is loaded.
DISC ERR	An abnormal MD is loaded (damaged disc etc.).
FULL	The available time of the disc is not sufficient when recording or editing. Track number has exceeded 255 songs.
LIMIT	Editing is not possible because of MD system limitations.
NO MD	A disc is not loaded.
NO NAME	The disc or track title is not recorded.
PROTECT	The disc is set for recording prevention. The track protect mode is engaged. (This mode cannot be cancelled on this unit) Cancel on the component where protect was engaged.
REC ERR	Recording has not been done properly because of vibrations during recording or damage to the disc.
SCMS	Recording is not possible because of SCMS standards such as the "copy from copy" standard. The loaded CD is not a music only CD.
UNLOCK	When recording from a CD, the CD and MD players are not connected using an optical fibre cable, or the players have been disconnected. The loaded CD is not a music only CD.

Troubleshooting

Before requesting service:
Before requesting service, please read the operator's manual thoroughly and check the following.

PROBLEM	CAUSE	COUNTER MEASURE
• No power	• Power cord is unplugged. • Remote control batteries are weak.	• Connect power cord securely. • Replace with new batteries.
• No sound	• Audio cords or speaker cords are not connected securely. • Mute is engaged.	• Connect cords securely. • Press MUTE button to cancel mode.
• CD playback does not start	• CD is not loaded. • CD is upside down. • CD is not loaded properly.	• Load a disc for playback. • Load disc with label side up. • Position correctly in disc grooves.
• Tape playback sound is strange	• Tape is stretched, twisted or damaged. • Dirty tape heads or tape transport system.	• Store tapes correctly. • Clean heads with head cleaner tape.
• Can not record to tape	• Tape's recording protect tabs have been removed.	• Cover holes with adhesive tape.
• Can not record to MD	• Recording protect tab is open. • Playback only MD is loaded. • CD and MD player are not connected with optical fibre cable. • Recording time of MD is FULL.	• Close recording protect tab. • Replace with recordable MD. • Connect with optical cable. • Replace disc, or erase it.
• Timer-controlled function does not operate	• Clock is not set to present time. • Timer mode indicator is not lit.	• Reset the current time. • Press TIMER button to confirm.
• Remote control does not operate	• Remote control is not pointed at the remote sensor window. • Obstacle between remote control and main unit. • Weak batteries.	• Point remote control in correct direction for operation. • Remove obstacle and point remote control at the unit's remote sensor window. • Replace with new batteries.

In addition to the above there are other operations that, if performed incorrectly could be misinterpreted as a malfunction. Before requesting service, please be sure to re-check the operation procedure before requesting service.

Specifications

Receiver : AA-500 / AA-503R

(TUNER section)

Tuning range	FM 87.5 – 108.0 MHz AM (MW) 531 – 1,602 kHz AM (LW) 144 – 288 kHz
Usable sensitivity	FM 20.2 dBf AM (MW) 500 µVm AM (LW) 800 µVm
Timer	Quartz Lock Daily Timer (Timer REC / Wake Up / Sleep)

(AMPLIFIER Section)

Power output	40 W + 40 W (6 ohms,10 % THD,EIAJ) 30 W + 30 W (6 ohms,1 % THD,EIAJ)
Music power output	68 W + 68 W
Peak music power output(PMPO)	Total 860 W
Frequency response	20 Hz – 80,000 Hz (- 3 dB)
Required speaker impedance	6 ohms
Super bass effect	0 – 10 dB / 70 Hz

(General)

Power requirements	AC 220 - 230 V, 50 Hz for Europe
Dimensions	160 (W) × 140 (H) × 279 (D) mm
Weight	4.8 kg

CD player : CD-500

Frequency response	20 Hz – 20,000 Hz (± 0.5 dB)
S / N ratio	96 dB
Total harmonic distortion	0.03 %
Input terminal / Sensitivity	RCA pin jack, 450 mV / 15 kohms
Digital output terminal / Level	Optical, – 18 dBm / 660 nm
Dimensions	160 (W) × 70 (H) × 262 (D) mm
Weight	1.5 kg

Cassette deck : DX-500

Frequency response	Normal tape : 40 Hz – 15.000 Hz (± 3 dB) CrO_2 tape : 40 Hz – 16,000 Hz (± 3 dB)
Wow & Flutter	0.1 % (WRMS)
Dimensions	160 (W) × 70 (H) × 256 (D) mm
Weight	1.6 kg

MiniDisc recorder : MD-500

System	Mini disc digital audio system
Frequency response	5 Hz – 20,000 Hz (± 1 dB)
S / N ratio	93 dB
Digital intput terminal	Optical, 660 nm
Digital output terminal / Level	Optical, - 18 dBm / 660 nm
Dimensions	160 (W) × 70 (H) × 262 (D) mm
Weight	1.5 kg

Speaker system AE-500

System	2 - Way, 2 - Speaker
Speaker units	Woofer : 135 mm Cone type Tweeter : 25 mm Soft dome type
Enclosure type	Passive radiator type
Maximum power input	80 W
System impedance	6 ohms
Dimensions	185 (W) × 280 (H) × 249 (D) mm
Weight	4.6 kg (One piece)

Standard accessories

Remote control (RC-Q500)	× 1
Batteries	× 2
FM wire antenna	× 1
AM loop antenna	× 1
Optical cable (included with MD-500)	× 1
Speaker cord (included with AE-500)	× 2

- For improvement purposes, specifications and design are subject to change without notice.
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